



Prepared for

Georgia Power Company
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**2023 SEMIANNUAL GROUNDWATER
MONITORING AND CORRECTIVE
ACTION REPORT
PLANT BRANCH ASH PONDS B, C, & D**

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Project Number: GW8862

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CERTIFICATION STATEMENT

This *2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Branch Ash Ponds B, C, & D* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



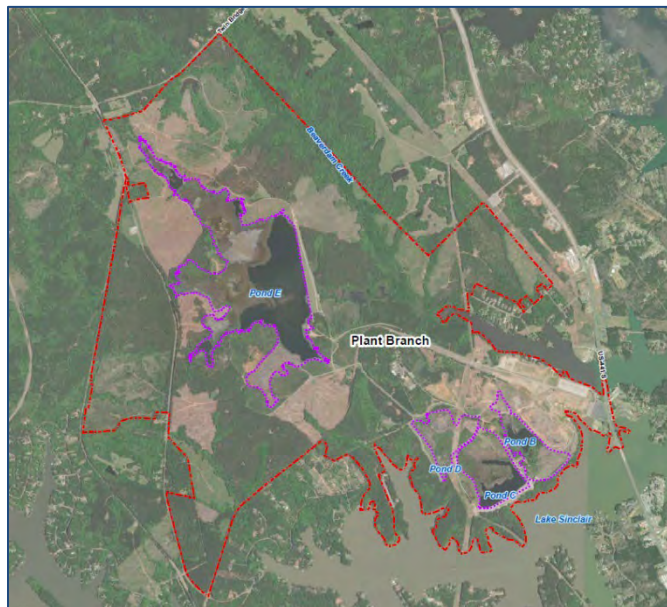
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February 28, 2024
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SUMMARY

This summary of the 2023 *Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of July 2023 through December 2023 (referred herein as the “semiannual reporting period”) at the Georgia Power Company (Georgia Power) Plant Branch Ash Ponds B, C, and D (AP-BCD) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference, Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Branch is located at 1100 Milledgeville Road, approximately 8 miles north of Milledgeville in Putnam County, Georgia. Plant Branch formerly operated as a coal-fired electric generating facility, until its decommissioning in July 2015, at which point it ceased producing electricity. CCR materials resulting from power generation were historically transferred and stored at five ash ponds (AP-) (i.e., A, B, C, D, and E). Ash Pond A was taken out of service in the late 1960s and was closed in April 2016. Ash Ponds B, C, D, and E are inactive, and will be closed by removal and



Plant Branch and the Site

relocation of its stored CCR to a fully lined and permitted landfill located on the plant property. As required in the CCR Rule, this Semiannual Report describes the status of the groundwater monitoring program, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and presents projected key activities for the upcoming year for AP-BCD. The other CCR unit (AP-E) at Plant Branch is reported separately.

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

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

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

During this semiannual reporting period, the semiannual assessment monitoring event for AP-BCD was conducted by Atlantic Coast Consulting (ACC) in August 2023. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and 40 CFR 257.95 (b) and (d)(1), the semiannual assessment monitoring event included sampling and analysis of all Appendix III and Appendix IV constituents. Groundwater samples were submitted to GEL Laboratories, LLC, for analysis. Surface water samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results from these sampling events were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ constituents in wells listed in the tables below.

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

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

During this reporting period, an alternate source demonstration (ASD) was prepared and submitted to GA EPD on February 28, 2024, to address the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I. A summary of this ASD is presented in Section 5 and the ASD is attached as **Appendix E**.

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2023 through December 2023, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

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LIST OF ACRONYMS

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

1.0 INTRODUCTION

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

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

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

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

SSLs of cadmium in BRGWC-50 and cobalt in BRGWC-50 and PZ-51I have been identified for assessment monitoring events subsequent to the November 2019 initiation of the assessment monitoring program and documented in the associated groundwater monitoring and corrective action reports. Between 2022 and 2023, an SSL of selenium (Se) has been identified downgradient of AP-D in BRGWC-32S and the following SSLs have been identified in the vicinity of AP-B: cadmium (PZ-60I); cobalt (PZ-58I, PZ-60I, and PZ-61I); beryllium (Be) (BRGWC-50, PZ-58I, and PZ-60I), and lithium (PZ-60I). These SSLs have been documented in the semiannual groundwater monitoring and corrective action reports. The new SSLs identified during the current semiannual reporting period include beryllium at BRGWC-50 and lithium at PZ-60I.

An ASD was prepared and submitted to GA EPD on February 28, 2024, to address the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I (Geosyntec, 2024). This ASD attributes the SSLs observed to impacts from the former coal pile instead of AP-B. A summary of this ASD is presented in Section 5 and the ASD is attached as **Appendix E**.

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash ponds B, C, and D (AP-BCD) are located on the southeast corner of the Plant surrounded by Lake Sinclair on the south, rural land on the north and west, and the former coal pile and Ash Pond A on the east (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

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

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

1.2 Regional Geology and Hydrogeologic Setting

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

1.2.1 Regional and Site Geology

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

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

1.2.2 Hydrogeologic Setting

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

1.3 Groundwater Monitoring Well Network

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

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

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients and to understand potential changes related to seasonal fluctuations or site activities. The piezometers may be sampled as needed to support the

AP-BCD ACM program. The piezometer locations are shown on the potentiometric surface map generated for this semiannual reporting period (**Figure 3**, discussed in detail in Section 3).

2.0 GROUNDWATER MONITORING ACTIVITIES

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

2.1 Monitoring Well Installation and Maintenance

No new monitoring wells or piezometers were installed during the semiannual reporting period. However, assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, and PZ-66I were reclassified as piezometers (**Table 1**) and therefore will no longer be sampled during the semiannual assessment monitoring events. These piezometers were installed and previously sampled to delineate constituent concentrations showing SSLs near AP-B. The piezometers may be sampled, as necessary, in support of the ACM program.

The well and piezometer networks are inspected semiannually to evaluate 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)). In August 2023, the networks were inspected and no corrective actions were required, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-BCD based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019. An ACM program was initiated on July 9, 2020. Georgia Power completed an ACM report (Golder, 2020) for AP-BCD at Plant Branch on December 4, 2020. An ASD was prepared and submitted to GA EPD on February 28, 2024, to address the beryllium, cadmium, cobalt, and/or lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I (Geosyntec, 2024). In accordance with § 257.96(b), groundwater continues to be monitored at AP-BCD under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, a semiannual assessment monitoring event was conducted in August 2023. The wells sampled during the event and the dates associated with the event are summarized in **Table 2**. The collected

groundwater samples were analyzed for the complete list of Appendix III and Appendix IV constituents.

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

2.3 Additional Sampling and Surface Water Sampling

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

Due to the presence of surface water features downgradient of AP-BCD, Georgia Power proactively collected surface water samples from discrete (surface, middle, and/or bottom) depths at eight locations in Lake Sinclair on August 23, 2023, as shown on **Figure 2**. The water samples were collected from the four locations downgradient of AP-B (LR+8, LR+8A, LR+9, and LR+9A) and were analyzed for Appendix III and cobalt, in addition to cations and anions (sodium, magnesium, potassium, and alkalinity). In addition, at two locations downgradient of AP-D (LS+3, LS+3A), surface water samples were collected from discrete depths (surface and middle) and analyzed for Appendix III and selenium, in addition to cations and anions. One of these locations, LS+3A, is used to delineate selenium concentrations immediately downgradient of the AP-D wells identified to have SSLs of selenium (presented in Section 4). The remaining two surface water sampling locations (LR-1, LR+10) are considered to represent more general lake conditions. Depth discrete samples collected here are analyzed for Appendix III, cations and anions, and both cobalt and selenium. Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling SESDPROC 201-R4 (USEPA, 2016). The laboratory report associated with the August 23, 2023, surface water sampling event is provided in **Appendix B**. Georgia Power will continue collecting the surface water samples semiannually as needed to support the nature and extent evaluation.

3.0 SAMPLING METHODOLOGY AND ANALYSES

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

3.1 Groundwater Elevation Measurement

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

The groundwater and surface water elevation data were used to prepare a site-wide potentiometric surface map for the August 2023 event, which is presented on **Figure 3**. The general direction of groundwater flow across AP-BCD is towards Lake Sinclair (south-southeast). This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-BCD were calculated using the groundwater elevation data from the August 2023 event. Horizontal hydraulic gradients were calculated along the flow paths between BGWA-23S and BRGWC-30I proximal to AP-D, and between BRGWC-47 and BRGWC-50 in vicinity of AP-B and AP-C. The supporting calculations are presented in **Table 4**. The calculated hydraulic gradients associated with these well pairs for the semiannual reporting period are 0.030 feet per foot (ft/ft) and 0.013 ft/ft, respectively. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3**.

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

Horizontal hydraulic conductivity (K_h) values used in flow calculations range from 1.45 to 2.80 feet per day (ft/day) and were based on slug test data presented in the 2020

Hydrogeologic Assessment Report Revision 01 (Geosyntec, 2020b) and collected subsequently. The average observed K_h estimates from each lithologic unit in which the well pairs were screened was used to produce a representative estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-BCD which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, horizontal flow velocities were calculated as below.

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

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

where:

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

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

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

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average groundwater flow velocity at the Site for this semiannual reporting period is approximately 0.26 ft/day across AP-BCD. The observed groundwater flow velocities are consistent with expected velocities in the Georgia Piedmont, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-BCD at Plant Branch.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells

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

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

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

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

During the August 2023 event, one low yielding well was encountered. Assessment well PZ-50D purged dry and required sample collection the following day due to low recharge rates in accordance with the field sampling plan for low yielding wells.

3.4 Laboratory Analyses

Groundwater laboratory analyses were performed by GEL Laboratories, and surface water analyses were performed by Pace Analytical Services, LLC, (Peachtree Corners,

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

The groundwater results from the semiannual reporting period are summarized in **Table 5**. Surface water analytical results from the August 2023 monitoring event are summarized in **Table 6**.

3.5 Quality Assurance and Quality Control Summary

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

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

4.0 STATISTICAL ANALYSIS

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

4.1 Statistical Methods

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

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

4.1.1 Appendix III Statistical Methods

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

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

4.1.2 Appendix IV Statistical Methods

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

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

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

- (1) The maximum contaminant level (MCL) established under §141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt: 0.006 mg/L;
 - (ii) Lead: 0.015 mg/L;
 - (iii) Lithium: 0.040 mg/L; and
 - (iv) Molybdenum: 0.1 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

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

4.2 Statistical Analyses Results

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

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

4.2.1 August 2023 Data

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

An ASD was prepared and submitted to GA EPD on February 28, 2024, to address the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I (Geosyntec, 2024). This ASD attributes the SSLs observed to impacts from the former coal pile instead of AP-B. Additional details of this ASD are presented in Section 5 and the ASD is attached as **Appendix E**.

Wells with SSLs and no ASD were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). A statistically significant increasing trend of selenium was identified during this reporting period in BRGWC-32S.

4.2.2 Summary of Statistical Analyses

The previous SSLs identified for the semiannual reporting period have remained generally consistent with the previous semiannual reporting period. In addition, a beryllium SSL was identified for BRGWC-50 and a lithium SSL was identified in PZ-60I.

5.0 NATURE AND EXTENT

5.1 Selenium

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

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

Specific details regarding the delineation activities at AP-D are discussed in the *Semiannual Remedy Selection and Design Progress Report (Appendix D)*.

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

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

An ASD is provided as an appendix to this report (**Appendix E**) to address the SSLs of beryllium, cadmium, cobalt, and lithium in BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ 61I. This ASD was submitted to GA EPD on February 28, 2024. Based on review of Site information, the SSLs of beryllium, cadmium, cobalt, and lithium identified in the detection and assessment monitoring wells listed above are not associated with a release from AP-B. Instead, the SSLs are attributed to (i) migration of acidic contact water generated by infiltration of water through the former coal pile causing oxidation of sulfide minerals and dissolution of trace inorganics associated with the coal; and (ii) acidic groundwater conditions downgradient of the former coal pile further facilitating mobilization of trace inorganics naturally occurring in the aquifer solids. A summary of the lines of evidence in support of the above conclusion is as follows:

- Detections of arsenic and cadmium in groundwater attributed to the former coal pile has been documented in a 2018 investigation that was previously submitted

to GA EPD under the HSRA. Trace elements identified as SSL constituents are commonly identified in coal.

- The analytical and geochemical signature of groundwater in the SSL wells reflects notably high sulfate concentrations, low boron concentrations, and low pH conditions, in contrast to the high boron, low sulfate, high pH signature from AP-B interstitial water in the ash and in groundwater at other areas of AP-BCD. Additionally, the interstitial water in ash shows low or non-detect concentrations of beryllium, cadmium, and cobalt. Despite a single detection of lithium (0.29 mg/L) in interstitial water in 2019 (IW-B-2) above the GWPS, the lack of concentration gradient from this location to elevated concentrations in the former coal pile area (FCPA) indicates AP-B is not the source of the SSL.
- The wells showing SSLs are located downgradient of the former coal pile and show no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-B interstitial water). In fact, these wells reflect similar geochemical composition observed in the groundwater underlying the former coal pile.
- A refined hydraulic flow analysis suggests that the SSL wells are predominantly hydraulically downgradient of and the result of impacts from the former coal pile.
- Stable oxygen and sulfur isotopes of sulfate indicate that the source of sulfate in the SSL wells is from pyrite oxidation of coal rather than coal combustion (i.e., sulfate released from coal ash).

Given submittal of this ASD, the SSLs of beryllium, cadmium, cobalt, and lithium in the vicinity of AP-B will no longer be under consideration for remedy selection in the *Semiannual Remedy Selection and Design Progress Reports*.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

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

6.2 Assessment of Corrective Measures

The ACM efforts completed during the semiannual reporting period are presented in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix D**. The semiannual progress report summarizes:

- i) The current conceptual site model (CSM).
- ii) Summary of work completed to date to achieve delineation of selenium and a summary of data collected to date to support remedy selection.
- iii) The status of evaluating applicable corrective measures at the Site.
- iv) The planned activities and anticipated schedule for the following semiannual reporting period.

In accordance with § 257.97(a), Georgia Power will include future semiannual progress reports with each groundwater monitoring and corrective action report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy.

7.0 CONCLUSIONS AND FUTURE ACTIONS

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

Georgia Power will continue to monitor AP-BCD groundwater under the assessment monitoring program and proceed with the evaluation of remedies for selenium in BRGWC-32S presented in the ACM Report (Golder, 2020b). The next routine semiannual assessment monitoring event for AP-BCD is scheduled for January 2024.

8.0 REFERENCES

- Geosyntec Consultants, 2020a. *Groundwater Monitoring Plan Revision 01, Georgia Power - Plant Branch, Putnam County, Georgia*. Submitted to Southern Company Services in November 2020.
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USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January 2017.

TABLES

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

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

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PZ-4I	Upgradient BCD & E	3/11/2014	2551282.08	1163246.61	479.9	482.98	443.5	433.5	46.8	10
PZ-4S	Upgradient BCD & E	3/10/2014	2551270.14	1163247.97	479.9	482.87	460.3	450.3	30.0	10
PZ-7S	Upgradient BCD & E	4/1/2014	2553055.64	1169419.33	449.0	451.57	414.9	404.9	44.5	10
PZ-8S	Upgradient BCD & E	4/1/2014	2551188.94	1167801.20	450.5	453.08	411.4	401.4	49.5	10
PZ-9S	Upgradient BCD & E	3/5/2014	2553089.53	1162633.36	466.1	469.28	428.5	418.5	48.0	10
PZ-10S	Downgradient E	3/5/2014	2554990.43	1164021.55	431.0	433.85	402.4	392.4	39.0	10
PZ-14I	Downgradient E	3/20/2014	2554365.65	1168398.28	419.9	422.71	376.5	366.5	53.8	10
PZ-14S	Downgradient E	3/20/2014	2554359.23	1168398.59	420.2	423.31	393.0	383.0	37.6	10
PZ-15I	Downgradient E	3/25/2014	2554399.25	1167721.02	400.2	403.06	321.9	311.9	88.7	10
PZ-15S	Downgradient E	3/27/2014	2554394.06	1167720.25	400.1	402.90	370.2	360.2	39.9	10
PZ-16I	Downgradient E	3/14/2014	2554587.53	1166980.59	379.5	382.45	351.3	341.3	38.6	10
PZ-16S	Downgradient E	3/18/2014	2554581.44	1166977.63	379.3	382.52	370.6	360.6	19.1	10
PZ-17I	Downgradient E	3/17/2014	2554702.42	1166313.81	362.3	365.33	329.2	319.2	43.5	10
PZ-18I	Downgradient D	2/26/2014	2557745.51	1160766.13	359.6	362.55	331.3	321.3	38.4	10
PZ-18S	Downgradient D	3/26/2014	2557747.42	1160757.41	359.7	362.82	345.0	335.0	24.2	10
PZ-19I	Downgradient C	3/4/2014	2558899.87	1159797.10	368.9	371.74	335.6	325.6	43.7	10
PZ-19S	Downgradient C	3/4/2014	2558894.60	1159805.43	368.4	371.42	350.8	340.8	28.0	10
PZ-20I	Downgradient C	3/5/2014	2560160.17	1159495.25	362.2	365.34	343.1	333.1	29.5	10
PZ-20S	Downgradient C	3/5/2014	2560157.16	1159490.13	362.2	365.41	357.3	347.3	15.3	10
PZ-21I	Downgradient B	3/10/2014	2561328.17	1160591.42	355.8	358.92	341.8	331.8	24.4	10
PZ-21S	Downgradient B	3/11/2014	2561321.43	1160592.45	355.5	358.52	351.1	346.1	9.8	5
PZ-23I	Upgradient BCD	7/29/2016	2557877.71	1162975.56	425.1	427.74	368.6	358.6	66.5	10
PZ-24S	Downgradient A	7/27/2016	2562862.19	1162400.95	351.4	354.10	319.9	309.9	42.0	10
PZ-26I	Downgradient B	7/26/2016	2561626.45	1160669.20	368.0	370.63	347.5	337.5	30.5	10
PZ-28I	Downgradient C	7/24/2016	2560151.53	1159505.00	362.5	364.81	348.5	338.5	24.0	10
PZ-31S	Downgradient D	7/26/2016	2557971.75	1160936.81	374.3	376.77	344.8	334.8	39.5	10
PZ-40S	Downgradient A	2/14/2017	2562807.61	1162415.06	353.2	355.96	324.4	314.4	40.2	10
PZ-41S	Downgradient A	2/14/2017	2562759.44	1162431.76	354.3	357.17	320.5	310.5	44.2	10
PZ-42S	Upgradient A	2/9/2017	2562734.89	1162845.64	359.0	361.66	337.2	327.2	32.2	10
PZ-43	Downgradient B	2/7/2018	2562031.42	1162159.72	381.0	383.71	351.0	341.0	40.4	10
PZ-46	Downgradient B	2/5/2018	2560558.89	1162756.31	382.1	384.64	346.5	336.5	45.6	10
PZ-48	Downgradient D	1/24/2018	2558444.63	1163046.78	418.3	420.90	361.7	351.7	67.0	10
PZ-49	Downgradient B	1/30/2018	2561125.71	1163321.35	382.2	384.99	375.6	365.6	17.0	10
PZ-51S	Downgradient B	8/1/2018	2562433.07	1161613.24	377.9	380.27	337.9	332.9	45.4	5
PZ-54	Downgradient E	5/15/2020	2555458.38	1164828.76	440.8	443.86	398.8	388.8	52.0	10
PZ-55	Downgradient E	5/19/2020	2554783.76	1163208.08	450.2	453.07	410.9	400.9	49.3	10
PZ-56	Downgradient E	5/20/2020	2554086.36	1162965.21	416.2	418.84	396.9	386.9	29.3	10
PZ-57I	Downgradient B	3/24/2021	2562170.21	1161582.51	379.4	382.50	313.8	303.8	75.9	10
PZ-59I	Downgradient B	3/31/2021	2562329.80	1161654.90	379.9	383.49	323.5	313.5	66.0	10
PZ-62I	Downgradient B	1/6/2022	2562336.00	1161478.90	378.1	380.95	318.1	308.1	70.0	10
PZ-65I	Downgradient B	9/09/2022	2562240.57	1161692.72	379.6	382.06	320.9	310.9	69.3	10
PZ-66I	Downgradient B	9/08/2022	2562134.65	1161747.91	380.9	383.52	323.1	313.1	68.3	10
PZ-67	Downgradient B	9/07/2022	2561919.76	1161831.98	378.8	381.48	351.0	341.0	38.3	10
PZ-69I	Downgradient D	8/31/2022	2558447.46	1160311.39	377.0	379.36	348.2	338.2	39.3	10
PZ-71I	Downgradient D	5/2/2023	2558230.83	1160295.35	382.6	385.34	352.8	342.8	40.0	10
PZ-72I	Downgradient D	5/9/2023	2558394.65	1160133.29	365.9	368.57	342.0	332.0	34.2	10
PZ-73I	Downgradient D	5/10/2023	2558559.30	1160226.37	349.9	352.63	334.9	324.9	25.3	10

Notes:

ft = feet

ft BGS = feet below ground surface

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 2
Groundwater Sampling Event Summary
Plant Branch AP-BCD, Putnam County, Georgia

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

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	August 21, 2023	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
AP-BCD Detection Monitoring Well Network			
BRGWA-2S	443.20	12.27	430.93
BRGWA-2I	443.14	12.07	431.07
BRGWA-5S	443.86	12.94	430.92
BRGWA-5I	443.79	12.85	430.94
BRGWA-6S	458.96	26.46	432.50
BRGWC-25I	357.37	11.08	346.29
BRGWC-27I	366.86	10.98	355.88
BRGWC-29I	353.23	10.88	342.35
BRGWC-30I	352.61	4.88	347.73
BRGWC-32S	406.39	40.50	365.89
BRGWC-45	384.58	15.20	369.38
BRGWC-47	411.20	27.42	383.78
BRGWC-50	381.35	38.23	343.12
BRGWC-52I	383.87	39.68	344.19
AP-E Detection Monitoring Well Network			
BRGWA-2S	443.20	12.27	430.93
BRGWA-2I	443.14	12.07	431.07
BRGWA-5S	443.86	12.94	430.92
BRGWA-5I	443.79	12.85	430.94
BRGWA-6S	458.96	26.46	432.50
BRGWC-17S	365.32	6.03	359.29
BRGWC-33S	416.68	12.31	404.37
BRGWC-34S	391.96	3.45	388.51
BRGWC-35S	366.31	2.20	364.11
BRGWC-36S	389.84	4.98	384.86
BRGWC-37S	447.05	53.22	393.83
BRGWC-38S	432.24	23.30	408.94
AP-BCD Assessment Monitoring Well Network			
PZ-44	383.04	27.66	355.38
PZ-50D	380.86	38.42	342.44
PZ-51S	380.27	38.25	342.02
PZ-51I	380.52	38.38	342.14
PZ-51D	380.75	38.11	342.64
PZ-57I	382.50	36.29	346.21
PZ-58I	382.27	37.41	344.86
PZ-59I	383.49	38.73	344.76
PZ-60I	382.61	38.19	344.42
PZ-61I	380.64	40.66	339.98
PZ-62I	380.95	39.17	341.78
PZ-63I	381.31	39.47	341.84
PZ-64I	381.94	38.53	343.41
PZ-65I	382.06	36.08	345.98
PZ-66I	383.52	35.75	347.77
PZ-68D	405.25	40.75	364.50
PZ-74I	371.13	28.17	342.96
PZ-75I	357.86	17.86	340.00
AP-E Assessment Monitoring Well Network			
PZ-13S	409.97	27.85	382.12
PZ-52D	417.03	24.93	392.10
PZ-53D	434.68	24.07	410.61
PZ-70I	425.70	28.62	397.08

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	August 21, 2023	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
<i>Piezometers</i>			
PZ-1D	463.41	39.89	423.52
PZ-1I	464.71	41.53	423.18
PZ-1S	465.07	39.69	425.38
PZ-3D	487.50	49.44	438.06
PZ-3I	489.49	51.06	438.43
PZ-3S	490.53	--	--
PZ-4I	482.98	33.98	449.00
PZ-4S	482.87	32.21	450.66
PZ-7S	451.57	28.60	422.97
PZ-8S	453.08	27.06	426.02
PZ-9S	469.28	35.90	433.38
PZ-10S	433.85	27.75	406.10
PZ-14I	422.71	19.95	402.76
PZ-14S	423.31	23.84	399.47
PZ-15I	403.06	11.12	391.94
PZ-15S	402.90	11.38	391.52
PZ-16I	382.45	12.43	370.02
PZ-16S	382.52	12.59	369.93
PZ-17I	365.33	3.56	361.77
PZ-18I	362.55	20.68	341.87
PZ-18S	362.82	20.87	341.95
PZ-19I	371.74	15.13	356.61
PZ-19S	371.42	14.85	356.57
PZ-20I	365.34	17.14	348.20
PZ-20S	365.41	17.28	348.13
PZ-21I	358.92	12.58	346.34
PZ-21S	358.52	12.09	346.43
PZ-23I	427.74	38.14	389.60
PZ-24S	354.10	14.21	339.89
PZ-26I	370.63	22.92	347.71
PZ-28I	364.81	16.62	348.19
PZ-31S	376.77	27.07	349.70
PZ-40S	355.96	15.79	340.17
PZ-41S	357.17	16.98	340.19
PZ-42S	361.66	20.14	341.52
PZ-43	383.71	29.72	353.99
PZ-46	384.64	11.69	372.95
PZ-48	420.90	31.82	389.08
PZ-49	384.99	9.47	375.52
PZ-54	443.86	49.29	394.57
PZ-55	453.07	55.51	397.56
PZ-56	418.84	9.21	409.63
PZ-67	381.48	30.41	351.07
PZ-69I	379.36	21.95	357.41
PZ-71I	385.34	34.14	351.20
PZ-72I	368.57	25.87	342.70
PZ-73I	352.63	7.57	345.06

Notes:

-- = Dry well, ground water depth not measured

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 4
Horizontal Gradient and Flow Velocity Calculations
Plant Branch AP-BCD, Putnam County, Georgia

August 21, 2023				
Flow Path Direction ⁽¹⁾	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
BRGWA-23S/BRGWC-30I	389.55	347.73	1374	0.030
BRGWC-47/BRGWC-50	383.78	343.12	3130	0.013

					Average
Flow Path Direction ⁽¹⁾	K _h (ft/day)	n _e	i (ft/ft)	V (ft/day) ⁽²⁾	V (ft/day) ⁽³⁾
BRGWA-23S/BRGWC-30I	2.80	0.20	0.030	0.43	0.26
BRGWC-47/BRGWC-50	1.45	0.20	0.013	0.09	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = h₁-h₂/L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

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

n_e = effective porosity

V = groundwater flow velocity

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

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

(3) Average groundwater flow velocity for unit.

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

Loc ID:	LR-1 (Bottom)	LR-1 (Mid)	LR-1 (Surface)	LR+8A (Surface)	LR+8 (Bottom)	LR+8 (Mid)	LR+8 (Surface)	LR+9A (Surface)	LR+9 (Bottom)	LR+9 (Mid)	LR+9 (Surface)	LR+10 (Bottom)	LR+10 (Mid)	LR+10 (Surface)	LS+3 (Surface)	LS+3 (Mid)	LS+3A (Surface)		
Sample Date:	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23	08/23/23		
Parameter ^(1,2,3)																			
APP. III	Boron	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027		
	Calcium	5.9	5.9	5.9	5.4	5.7	5.6	5.5	5.4	5.5	5.2	5.5	5.5	5.5	5.7	5.8	5.9	5.5	
	Chloride	3.9	3.6	3.6	3.7	3.7	3.7	3.6	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.6	3.6	3.8	
	Fluoride	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	pH, Field	6.90	6.92	7.01	7.15	6.96	6.95	6.98	7.01	6.95	6.94	6.95	6.99	6.98	7.02	7.16	7.07	7.19	
	Sulfate	1.7	1.7	2.2	2.2	2.0	2.0	1.9	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3
	TDS	62	53	65	53	50	50	40	40	52	42	44	45	46	36	46	57	53	
APP. IV	Cobalt	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	--	--	--	
	Selenium	< 0.0014	< 0.0014	< 0.0014	--	--	--	--	--	--	--	--	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	
GEOCHEM	Alkalinity (total) as CaCO3	33.8	33.9	34.4	31.3	32.5	32.3	31.8	31.1	31.0	30.7	31.6	31.1	30.0	30.2	33.3	32.3	33.3	
	Alkalinity (Bicarbonate as CaCO3)	33.8	33.9	34.4	31.3	32.5	32.3	31.8	31.1	31.0	30.7	31.6	31.1	30.0	30.2	33.3	32.3	33.3	
	Magnesium	3.0	3.0	3.0	2.6	2.8	2.8	2.7	2.5	2.6	2.5	2.6	2.6	2.5	2.6	3.0	3.0	2.8	
	Potassium	2.6	2.6	2.5	2.4	2.5	2.4	2.5	2.4	2.4	2.4	2.5	2.5	2.5	2.7	2.5	2.5	2.4	
	Sodium	5.3	5.3	5.3	4.9	5.1	5.0	5.0	4.8	4.9	4.6	4.9	4.9	4.9	5.1	5.2	5.3	4.9	

Notes:

-- = Parameter was not analyzed

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

TDS = total dissolved solids

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 7
Summary of Background Concentrations and Groundwater Protection Standards
Plant Branch AP-BCD, Putnam County, Georgia

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

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

n/a = not applicable

pCi/L = picocuries per liter

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

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

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

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

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

FIGURES

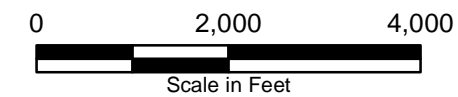


LEGEND

- - - Plant Branch Property Boundary
- . . . Approximate Ash Pond Boundary



- Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
 2. Property Boundary Provided by Southern Company Services.
 3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



SITE LOCATION MAP

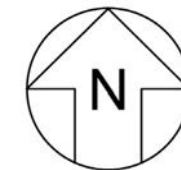
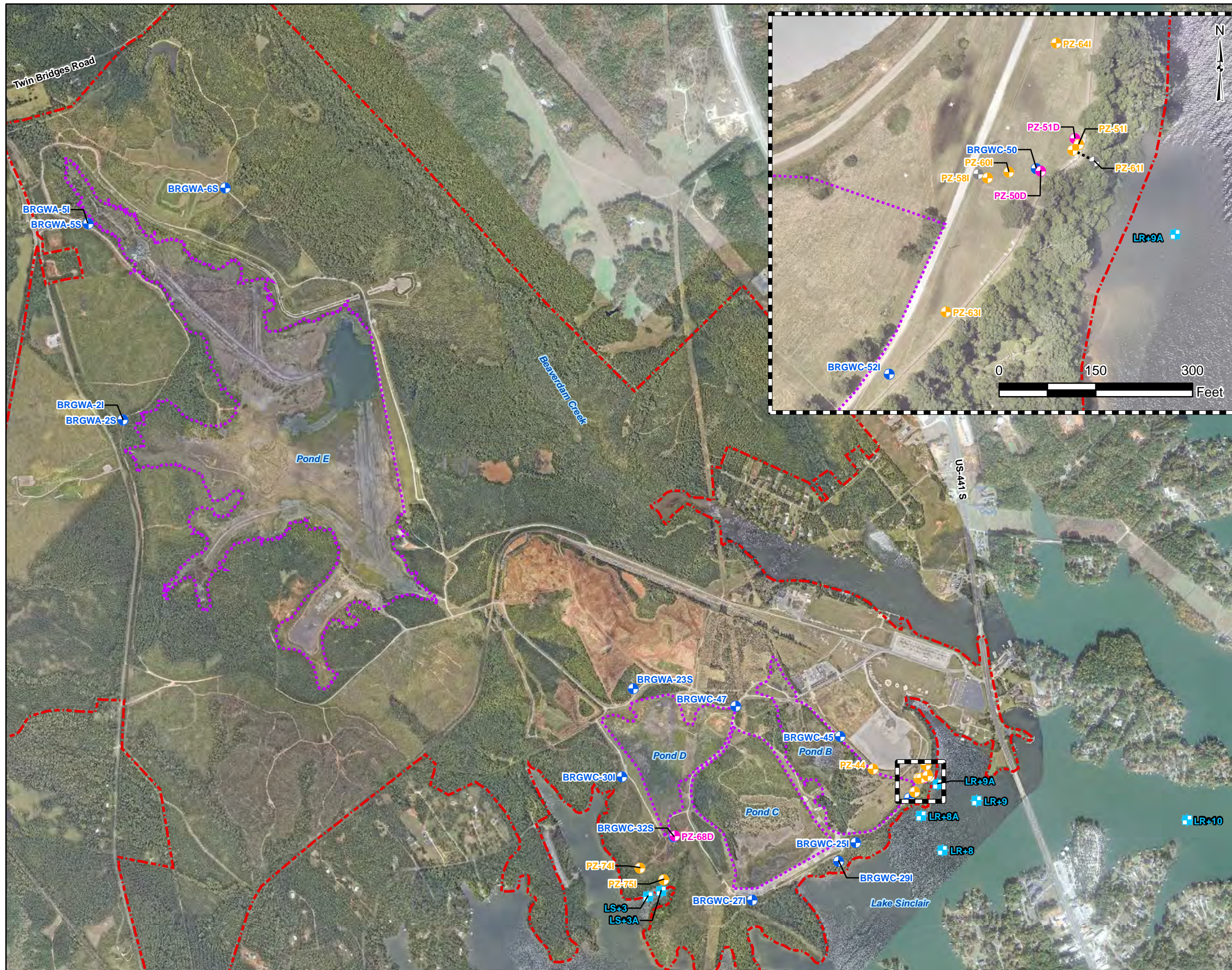
GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

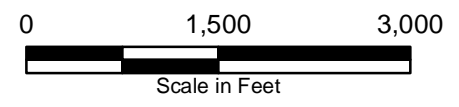
FIGURE
1

KENNESAW, GA FEBRUARY 2024



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

- Notes:**
1. Surface water sampling location LR-1 is located to the south of AP-BCD beyond the extent displayed in this figure.
 2. Property Boundary Provided by Southern Company Services.
 3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



MONITORING WELL NETWORK AND SURFACE WATER LOCATION MAP

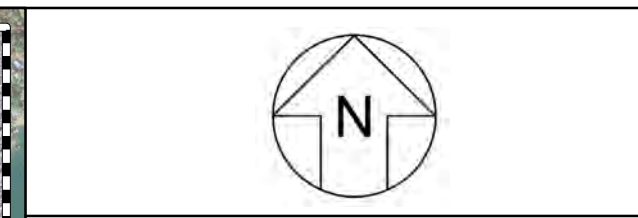
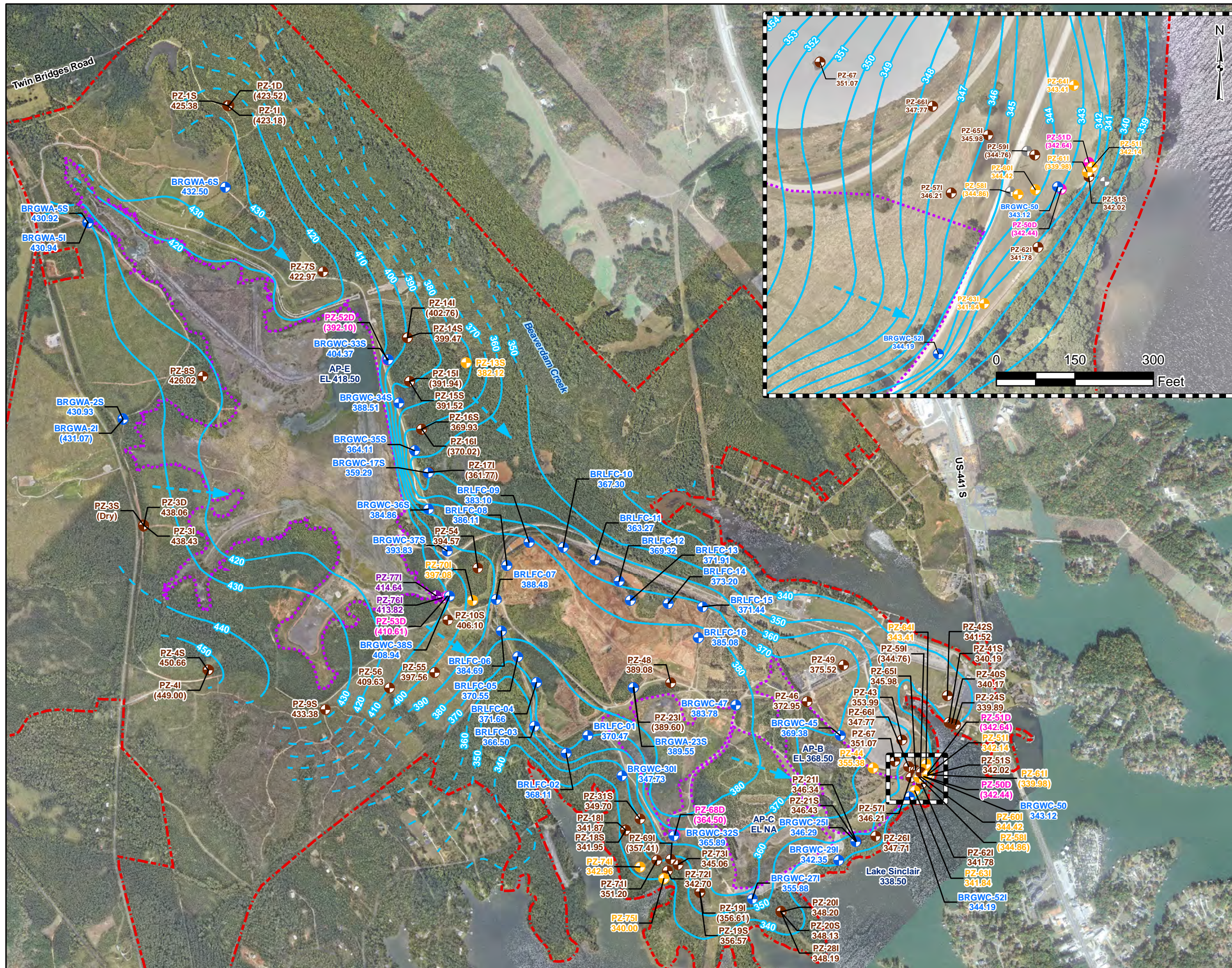
GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA FEBRUARY 2024

FIGURE
2

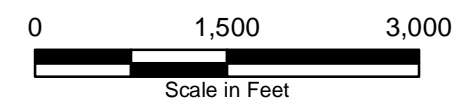


LEGEND

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



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



POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2023

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

FIGURE
3

KENNESAW, GA FEBRUARY 2024

APPENDIX A

Well Maintenance and Repair Documentation Memoranda



ATLANTIC COAST
CONSULTING, INC.

*Our work helps produce
a cleaner environment for all.*

Memorandum

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

From: Atlantic Coast Consulting

Date: November 13, 2023

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

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	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
Well ID:					
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

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

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	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
Well ID:						
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Corrective actions as needed, by date:

Well ID:

PZ-42S

PZ-43

PZ-46

PZ-48

PZ-49

PZ-54

PZ-55

PZ-56

PZ-67

PZ-69I

PZ-71I

PZ-72I

PZ-73I

APPENDIX B

Laboratory Analytical Results and Field Sampling Forms

September 22, 2023

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

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

Dear Joju Abraham:

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

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

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



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

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

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

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

Sincerely,

A handwritten signature in black ink that reads "Erin J. Trent". The signature is written in a cursive style with a large, stylized "E" and "T".

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634443 GEL Work Order: 634443

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: September 22, 2023

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634443001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client
Project: GPCC00101
Client ID: GPCC001

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-FD-04

Project: GPCC00101

Sample ID: 634443002

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S

Project: GPCC00101

Sample ID: 634443003

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
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Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-FB-07

Project: GPCC00101

Sample ID: 634443004

Client ID: GPCC001

Matrix: WQ

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S

Project: GPCC00101

Sample ID: 634443005

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S

Project: GPCC00101

Sample ID: 634443006

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634648 GEL Work Order: 634648

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

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

Project: GPCC00101
 Client ID: GPCC001

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S

Project: GPCC00101

Sample ID: 634648002

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
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Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S

Project: GPCC00101

Sample ID: 634648003

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S

Project: GPCC00101

Sample ID: 634648004

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
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Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I

Project: GPCC00101

Sample ID: 634648005

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-FD-05

Project: GPCC00101

Sample ID: 634648006

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-FB-08

Project: GPCC00101

Sample ID: 634648007

Client ID: GPCC001

Matrix: WQ

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-EB-09

Project: GPCC00101

Sample ID: 634648008

Client ID: GPCC001

Matrix: WQ

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APE-R

Client Sample ID: BRA-APE-EB-10

Project: GPCC00101

Sample ID: 634648009

Client ID: GPCC001

Matrix: WQ

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

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

The following Analytical Methods were performed

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

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

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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QC Summary

Report Date: September 22, 2023
Page 1 of 2

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

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634443

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2494433										
QC1205520856	634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/23	08:46
	Uncert:	+/-0.702		+/-0.838							
	TPU:	+/-0.702		+/-0.891							
QC1205520857	LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/23	08:46
	Uncert:			+/-4.33							
	TPU:			+/-19.9							
QC1205520855	MB										
Radium-228				1.38	pCi/L				JE1	09/22/23	08:46
	Uncert:			+/-0.802							
	TPU:			+/-0.875							
Rad Ra-226											
Batch	2482017										
QC1205498038	634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-0.249							
	TPU:	+/-0.337		+/-0.251							
QC1205498040	LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:			+/-2.02							
	TPU:			+/-5.55							
QC1205498037	MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/23	09:26
	Uncert:			+/-0.184							
	TPU:			+/-0.188							
QC1205498039	634443001 MS										
Radium-226	137	U	0.401	103	pCi/L		75.1	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:		+/-0.326	+/-7.23							
	TPU:		+/-0.337	+/-17.8							

Notes:

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

The Qualifiers in this report are defined as follows:

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

GEL LABORATORIES LLC

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QC Summary

Workorder: 634443

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

GEL LABORATORIES LLC

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QC Summary

Report Date: September 20, 2023
Page 1 of 2

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

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634648

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2485947										
QC1205505245	634648001 DUP										
Radium-228	U	1.78		3.83	pCi/L	72.8		(0% - 100%)	JE1	09/18/23	14:26
	Uncert:	+/-1.48		+/-1.84							
	TPU:	+/-1.55		+/-2.09							
QC1205505246	LCS										
Radium-228	78.3			73.1	pCi/L		93.4	(75%-125%)	JE1	09/18/23	11:42
	Uncert:			+/-5.15							
	TPU:			+/-19.6							
QC1205505244	MB										
Radium-228			U	2.08	pCi/L				JE1	09/18/23	14:26
	Uncert:			+/-1.45							
	TPU:			+/-1.54							
Rad Ra-226											
Batch	2485948										
QC1205505248	634648001 DUP										
Radium-226	U	0.139	U	0.237	pCi/L	0			N/A LXP1	09/20/23	09:58
	Uncert:	+/-0.249		+/-0.233							
	TPU:	+/-0.250		+/-0.238							
QC1205505250	LCS										
Radium-226	26.9			27.4	pCi/L		102	(75%-125%)	LXP1	09/20/23	10:30
	Uncert:			+/-1.80							
	TPU:			+/-4.71							
QC1205505247	MB										
Radium-226			U	0.316	pCi/L				LXP1	09/20/23	09:58
	Uncert:			+/-0.263							
	TPU:			+/-0.271							
QC1205505249	634648001 MS										
Radium-226	122 U	0.139		91.7	pCi/L		75.1	(75%-125%)	LXP1	09/20/23	09:58
	Uncert:	+/-0.249		+/-6.79							
	TPU:	+/-0.250		+/-18.5							

Notes:

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

The Qualifiers in this report are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 634648

Page 2 of 2

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634443**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2488604

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

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

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

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2494433

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

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

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

Data Summary:

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

Quality Control (QC) Information

Method Blank Criteria

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

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

Technical Information

Sample Re-prep/Re-analysis

Samples were re-prepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2482017

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

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

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

Data Summary:

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

Miscellaneous Information

Additional Comments

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

Certification Statement

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

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634648**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2485949

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

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

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

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2485947

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

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

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

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

Data Summary:

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

Technical Information

Recounts

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

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2485948

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

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

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

Data Summary:

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

Miscellaneous Information

Additional Comments

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

Certification Statement

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

634441 634443

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry / Radiochemistry / Radioassay / Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: _____
GEL Project Manager: Erin Trent
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - E
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
 Collected By: T. Cobble / D. J. ACC
 Send Results To: SCS & Geosyntec Contacts

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

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (1)	Sample Matrix (1)	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Should this sample be considered: (7) Known or possible Hazards (isotopic info) yes, please supply	Total number of containers	Total Carb. & Bleach Aik EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
						CL, F, SO4, TDS, NO3	EPA 300, SM 2540C	Total Carb. & Bleach Aik EPA 300, SM 220B	Metals * EPA 6020, 6010, 7470								
BRA- GWC-335	08/22/23	1210	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	QC Task Code: BRA-CCR-ASSMT-2023S2
BRA- APE-FD-04	08/22/23	---	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	
BRA- GWC-345	08/22/23	1435	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	
BRA- APE-FB-07	08/22/23	1510	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	
BRA- BRGWC-375	08/22/23	1651	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	
BRA- PZ-135	08/22/23	1647	G	N	WG	8	8	8	8	8	8	8	8	8	8	8	
BRA-																	
BRA-																	
BRA-																	
BRA-																	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
[Signature]	8-23-23	[Signature]	8/23/23	0825
[Signature]	8/15/23	[Signature]	8/15/23	0832
[Signature]	8/15/23	[Signature]	8/15/23	100

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

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

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

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

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

63444 63443
 63448 63447
 63443 634450
 63441 63444
 63444

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: EXPP		SDG/AR/COC/Work Order: ET	
Received By: MVH		Date Received: 8-23-2023	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other COOLER 2-3^c COOLER 4-1^c COOLER 6-1^c COOLER 1-2^c COOLER 3-1^c COOLERS 5-2^c	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample Receipt Criteria		Yes	NA
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8 Samples received within holding time?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments (Use Continuation Form if needed): BRA-D2-13S, BRA-BREWA-2S, BRA-BREWA-6S, BRA-BREWC-32S, BRA-BRAWA-2I, BRA-BREWC-37S, BRA-BRW-34S, BRA-BRGWC-30I Sulfide samples didnt hold proper preservation.			

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

634648

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

GEL Laboratories LLC
Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

Project # _____ of _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - E
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gobie ACC
D. Johnson

GEL Work Order Number: _____
Phone # 404-506-7116
Fax # _____
Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (4)	Sample Matrix (6)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S2		
						Yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	EPA 300, SM 2540C Cl, F, SO4, TDS, NO3	Total, Carb. & Branch Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500	NI
BRA- BRGWC-175	08/23/23	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-355	08/23/23	1201	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-365	08/23/23	1556	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-385	08/23/23	1212	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓	✓	✓		
BRA- PZ-70I	08/23/23	1612	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FD-05	08/23/23	-	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FB-06	08/23/23	1630	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-EB-09	08/23/23	1645	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-ED-10	08/23/23	1315	G	N	WG	N	N	8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8-24-23	0740	<i>[Signature]</i>	8/24/23	840
<i>[Signature]</i>	8/24/23	1843	<i>[Signature]</i>	8/24/23	1243

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

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

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

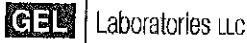
7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

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

634448 634043
 634652 634650
 634649
 # 634648 634615



SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPCC</u>			SDG/AR/COC/Work Order:			
Received By: <u>EG</u>			Date Received: <u>8.24.23</u>			
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <u>cooler 1-3°</u> <u>cooler 3-3°</u> <u>cooler 2-3°</u> <u>cooler 4-2°</u> <u>cooler 5-3°</u>			
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?				Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?				COC notation or radioactive indication on containers and labels designation		
C) Did the RSO classify the samples as radioactive?				Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?				COC notation or hazard labels on containers and labels designation		
E) Did the RSO identify possible hazards?				If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____		
Sample Receipt Criteria			Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?					Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?					Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*					Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See coolers above & below for temps</u>
4	Daily check performed and passed on IR temperature gun?					Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?					Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?					Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?					If Yes, are Encorus or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?					ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?					ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?					Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?					Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?					
13	COC form is properly signed in relinquished/received sections?					Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>cooler 6-1</u> <u>cooler 7-2</u> <u>cooler 8-4</u> <u>cooler 9-1</u>						

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



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

- BRA-P2-511
- BRA-P2-591
- BRA-BRGWC-353
- BRA-BRGWC-36S
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-38S
- BRA-P2-641
- BRA-P2-68D
- BRA-APBCD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

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

List of current GEL Certifications as of 20 September 2023

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

September 08, 2023

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

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

Dear Joju Abraham:

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

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

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



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

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

Prep Methods and Prep Dates

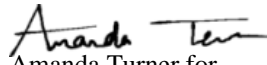
<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 3005A	29-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	28-AUG-2023

Analysis Methods and Analysis Dates

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

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

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634650 GEL Work Order: 634650

The Qualifiers in this report are defined as follows:

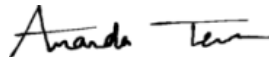
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634768 GEL Work Order: 634768

The Qualifiers in this report are defined as follows:

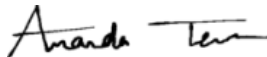
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634444 GEL Work Order: 634444

The Qualifiers in this report are defined as follows:

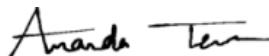
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-511 Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 15:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.43	0.0670	0.200	mg/L		1	LXA2	08/24/23	2002	2482641	1
Fluoride	J	0.0744	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1200	13.3	40.0	mg/L		100	LXA2	08/25/23	1742	2482641	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1108	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1317	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000679	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.136	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0221	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.430	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1131	2482707	5
Calcium		217	0.400	1.00	mg/L	1.00	5					
Magnesium		133	0.0500	0.150	mg/L	1.00	5					
Manganese		49.9	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1147	2482707	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-51I Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		23.5	0.725	2.00	mg/L			JW2	09/01/23	1044	2486265	9
Bicarbonate alkalinity (CaCO ₃)		23.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I Project: GPCC00101
Sample ID: 634650002 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 15:10
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	LXA2	08/24/23	2033	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		11.0	0.335	1.00	mg/L		5	LXA2	08/25/23	1844	2482641	2
Sulfate		949	13.3	40.0	mg/L		100	LXA2	08/25/23	1813	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1113	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1339	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0173	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00453	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000860	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00494	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0250	2482707	6
Lithium		0.0468	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.79	0.0800	0.300	mg/L	1.00	1					
Manganese		31.4	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1209	2482707	7
Beryllium		0.0328	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1206	2482707	8
Boron		0.429	0.0260	0.0750	mg/L	1.00	5					
Calcium		162	0.400	1.00	mg/L	1.00	5					
Cobalt		0.556	0.00150	0.00500	mg/L	1.00	5					
Iron		52.8	0.165	0.500	mg/L	1.00	5					
Magnesium		85.8	0.0500	0.150	mg/L	1.00	5					
Sodium		34.7	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-58I	Project: GPCC00101
Sample ID: 634650002	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1046	2486265	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-59I Project: GPCC00101
Sample ID: 634650003 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 11:40
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I	Project: GPCC00101
Sample ID: 634650004	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 13:25	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	LXA2	08/24/23	2104	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1830	26.6	80.0	mg/L		200	LXA2	08/25/23	1914	2482641	2
Chloride		25.0	0.670	2.00	mg/L		10	LXA2	08/25/23	1945	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1115	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.0670	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1450	2482707	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0253	2482707	6
Iron		1.60	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0936	0.00300	0.0100	mg/L	1.00	1					
Manganese		175	1.00	5.00	mg/L	1.00	1000	PRB	09/08/23	1215	2482707	7
Boron		0.300	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1212	2482707	8
Calcium		294	0.800	2.00	mg/L	1.00	10					
Cobalt		3.79	0.00300	0.0100	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		13.8	0.800	3.00	mg/L	1.00	10					
Sodium		65.3	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1342	2482707	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0149	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00430	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-60I Project: GPCC00101
Sample ID: 634650004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1047	2486265	12
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 634650005 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.81	0.0670	0.200	mg/L		1	JLD1	08/24/23	1833	2482649	1
Fluoride		0.252	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	JLD1	08/25/23	0358	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1116	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1345	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0221	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000539	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0257	2482707	5
Cobalt		0.0309	0.000300	0.00100	mg/L	1.00	1					
Iron		1.18	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00516	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.62	0.0800	0.300	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1218	2482707	6
Boron		0.706	0.0520	0.150	mg/L	1.00	10					
Calcium		56.8	0.800	2.00	mg/L	1.00	10					
Magnesium		37.7	0.100	0.300	mg/L	1.00	10					
Manganese		6.97	0.0100	0.0500	mg/L	1.00	10					
Sodium		18.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		503	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 634650005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		29.1	0.725	2.00	mg/L			JW2	09/01/23	1049	2486265	9
Bicarbonate alkalinity (CaCO ₃)		29.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I Project: GPCC00101
Sample ID: 634650006 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 10:55
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	LXA2	08/24/23	1932	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2550	26.6	80.0	mg/L		200	LXA2	08/25/23	2118	2482641	2
Chloride		36.5	1.34	4.00	mg/L		20	LXA2	08/25/23	2149	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1118	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		10.6	0.300	1.00	mg/L	1.00	1000	PRB	09/08/23	1224	2482707	5
Manganese		380	1.00	5.00	mg/L	1.00	1000					
Calcium		363	0.800	2.00	mg/L	1.00	10	PRB	09/08/23	1221	2482707	6
Magnesium		261	0.100	0.300	mg/L	1.00	10					
Potassium		13.5	0.800	3.00	mg/L	1.00	10					
Sodium		75.3	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00834	0.00520	0.0150	mg/L	1.00	1	PRB	09/08/23	0301	2482707	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		3.00	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0126	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1349	2482707	8
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0177	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0163	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1454	2482707	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-64I	Project: GPCC00101
Sample ID: 634650006	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	09/01/23	1051	2486265	12
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:08
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.218	0.0330	0.100	mg/L		1	JLD1	08/24/23	1905	2482649	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		23.0	1.68	5.00	mg/L		25	JLD1	08/25/23	0429	2482649	2
Sulfate		298	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1119	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1227	2482707	4
Arsenic	J	0.00342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00625	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1231	2482707	5
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Manganese		0.851	0.00500	0.0250	mg/L	1.00	5					
Potassium		11.4	0.400	1.50	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0304	2482707	6
Cobalt		0.00106	0.000300	0.00100	mg/L	1.00	1					
Iron		1.04	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00399	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		122	0.725	2.00	mg/L			JW2	09/01/23	1053	2486265	9
Bicarbonate alkalinity (CaCO ₃)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02	Project: GPCC00101
Sample ID: 634650008	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 14:50	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	1936	2482649	1
Fluoride		0.516	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1121	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1234	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00104	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.105	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00124	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.370	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1056	2486265	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 634650009 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1220	26.6	80.0	mg/L		200	JLD1	08/25/23	0532	2482649	1
Chloride		14.7	0.335	1.00	mg/L		5	JLD1	08/25/23	0501	2482649	2
Fluoride		0.583	0.0330	0.100	mg/L		1	JLD1	08/24/23	2007	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1123	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1352	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00731	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0319	2482707	6
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0392	0.00300	0.0100	mg/L	1.00	1					
Potassium		9.96	0.0800	0.300	mg/L	1.00	1					
Beryllium		0.00869	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1243	2482707	7
Boron		0.366	0.0260	0.0750	mg/L	1.00	5					
Calcium		220	0.400	1.00	mg/L	1.00	5					
Cobalt		1.43	0.00150	0.00500	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Sodium		51.3	0.400	1.25	mg/L	1.00	5					
Manganese		78.2	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1246	2482707	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2000	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	10

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-APBCD-FD-01	Project: GPCC00101
Sample ID: 634650009	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	09/01/23	1058	2486265	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02	Project: GPCC00101
Sample ID: 634650010	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:00	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	JLD1	08/24/23	2039	2482649	1
Fluoride		0.255	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		295	3.33	10.0	mg/L		25	JLD1	08/25/23	0603	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1124	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1355	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0217	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1249	2482707	5
Boron		0.699	0.0520	0.150	mg/L	1.00	10					
Calcium		53.4	0.800	2.00	mg/L	1.00	10					
Magnesium		36.0	0.100	0.300	mg/L	1.00	10					
Manganese		6.63	0.0100	0.0500	mg/L	1.00	10					
Sodium		17.8	0.800	2.50	mg/L	1.00	10					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0322	2482707	6
Cobalt		0.0300	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.42	0.0800	0.300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 634650010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		29.7	0.725	2.00	mg/L			JW2	09/01/23	1100	2486265	9
Bicarbonate alkalinity (CaCO ₃)		29.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 634650011 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 11:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	0.335	1.00	mg/L		5	JLD1	08/25/23	0738	2482649	1
Sulfate		1290	26.6	80.0	mg/L		200	JLD1	08/25/23	0809	2482649	2
Fluoride		0.499	0.0330	0.100	mg/L		1	JLD1	08/24/23	2110	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1126	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1358	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00744	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		103	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1255	2482707	6
Beryllium		0.00867	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1252	2482707	7
Boron		0.372	0.0260	0.0750	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Cobalt		1.38	0.00150	0.00500	mg/L	1.00	5					
Magnesium		142	0.0500	0.150	mg/L	1.00	5					
Potassium		10.6	0.400	1.50	mg/L	1.00	5					
Sodium		49.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0326	2482707	8
Iron		0.409	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0393	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2180	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-BRGWC-50	Project: GPCC00101
Sample ID: 634650011	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.0	0.725	2.00	mg/L			JW2	09/01/23	1101	2486265	11
Bicarbonate alkalinity (CaCO3)		11.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04	Project: GPCC00101
Sample ID: 634650012	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 11:35	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	2142	2482649	1
Fluoride		0.503	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1128	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1259	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0165	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00140	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.359	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 634650012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1104	2486265	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 634650013 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:40
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		49.5	0.665	2.00	mg/L		5	JLD1	08/25/23	1308	2482649	1
Chloride		6.83	0.0670	0.200	mg/L		1	JLD1	08/24/23	2213	2482649	2
Fluoride		0.195	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1133	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1302	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0555	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0501	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00560	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.478	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.44	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.35	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1305	2482707	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1058	2482961	7

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-44	Project: GPCC00101
Sample ID: 634650013	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.3	0.725	2.00	mg/L			JW2	09/01/23	1105	2486265	8
Bicarbonate alkalinity (CaCO3)		81.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 8, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 634650014	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:30	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.1	0.335	1.00	mg/L		5	JLD1	08/25/23	1340	2482649	1
Sulfate		854	13.3	40.0	mg/L		100	JLD1	08/25/23	1411	2482649	2
Fluoride		0.193	0.0330	0.100	mg/L		1	JLD1	08/24/23	2244	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1134	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0337	2482707	5
Cobalt		0.00991	0.000300	0.00100	mg/L	1.00	1					
Iron		4.37	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0232	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1401	2482707	6
Arsenic	J	0.00300	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0312	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1308	2482707	7
Boron		0.285	0.0260	0.0750	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Magnesium		73.3	0.0500	0.150	mg/L	1.00	5					
Manganese		2.56	0.00500	0.0250	mg/L	1.00	5					
Potassium		12.0	0.400	1.50	mg/L	1.00	5					
Sodium		39.5	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1360	4.76	20.0	mg/L			CH6	08/30/23	1542	2484583	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1300	2483779	9

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Certificate of Analysis

Report Date: September 8, 2023

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

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

Client Sample ID: BRA-PZ-50D Project: GPCC00101
Sample ID: 634650014 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		72.2	0.725	2.00	mg/L			JW2	09/01/23	1107	2486265	10
Bicarbonate alkalinity (CaCO ₃)		72.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 634768001 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 12:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.4	0.670	2.00	mg/L		10	JLD1	08/26/23	1600	2483105	1
Sulfate		112	1.33	4.00	mg/L		10					
Fluoride		0.198	0.0330	0.100	mg/L		1	JLD1	08/25/23	1644	2483105	2
Nitrate-N	J	0.0476	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1212	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1808	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0442	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00228	0.000300	0.00100	mg/L	1.00	1					
Iron		0.170	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.220	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.04	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/30/23	1648	2484591	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 634768001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.1	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23 09:55
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/25/23	1826	2483105	1
Fluoride	J	0.0798	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1213	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1811	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.104	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	5

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I	Project: GPCC00101
Sample ID: 634768003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 12:25	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.81	0.0670	0.200	mg/L		1	JLD1	08/25/23	1857	2483105	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0657	0.0330	0.100	mg/L		1					
Sulfate		94.5	1.33	4.00	mg/L		10	JLD1	08/26/23	1631	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1215	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1840	2483979	4
Calcium		74.4	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1815	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00601	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0749	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.53	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.458	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1301	2483779	7

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-27I Project: GPCC00101
Sample ID: 634768003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		35.6	0.725	2.00	mg/L			JW2	09/01/23	1114	2486267	8
Bicarbonate alkalinity (CaCO ₃)		35.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 12:06
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.5	0.670	2.00	mg/L		10	JLD1	08/26/23	1702	2483105	1
Sulfate		114	1.33	4.00	mg/L		10					
Fluoride		0.185	0.0330	0.100	mg/L		1	JLD1	08/25/23	1928	2483105	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1217	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1855	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0444	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00221	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.211	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000356	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		242	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.2	0.725	2.00	mg/L			JW2	09/01/23	1116	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-75I	Project: GPCC00101
Sample ID: 634768005	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 10:51	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.84	0.0670	0.200	mg/L		1	JLD1	08/25/23	2102	2483105	1
Fluoride		0.140	0.0330	0.100	mg/L		1					
Nitrate-N		0.794	0.0330	0.100	mg/L		1					
Sulfate		275	2.66	8.00	mg/L		20	JLD1	08/26/23	1734	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1218	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.51	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1902	2483979	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1858	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0513	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		47.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.464	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00579	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0957	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.45	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0696	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		430	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	7

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-PZ-75I Project: GPCC00101
Sample ID: 634768005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.2	0.725	2.00	mg/L			JW2	09/01/23	1118	2486267	8
Bicarbonate alkalinity (CaCO ₃)		27.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 14:15
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	1.68	5.00	mg/L		25	JLD1	08/26/23	1805	2483105	1
Sulfate		309	3.33	10.0	mg/L		25					
Fluoride		0.157	0.0330	0.100	mg/L		1	JLD1	08/25/23	2134	2483105	2
Nitrate-N	J	0.0475	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1220	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1906	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0346	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000590	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0585	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.66	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0423	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.47	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1909	2483979	5
Calcium		69.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1415	2483133	7

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		42.6	0.725	2.00	mg/L			JW2	09/01/23	1122	2486267	8
Bicarbonate alkalinity (CaCO ₃)		42.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 15:20
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		288	3.33	10.0	mg/L		25	JLD1	08/26/23	1837	2483105	1
Chloride		6.08	0.0670	0.200	mg/L		1	JLD1	08/25/23	2205	2483105	2
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N		0.297	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1222	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.34	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1924	2483979	4
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Manganese		1.38	0.0200	0.100	mg/L	1.00	20					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1036	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1920	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0174	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00113	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00724	0.000300	0.00100	mg/L	1.00	1					
Iron		23.3	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.76	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1124	2486267	9
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 11:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		22.2	2.68	8.00	mg/L		40	HXC1	08/25/23	2133	2483150	1
Sulfate		346	5.32	16.0	mg/L		40					
Fluoride		0.395	0.0330	0.100	mg/L		1	HXC1	08/25/23	1439	2483150	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1223	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1927	2483979	4
Arsenic	J	0.00408	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0448	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0387	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000427	0.000300	0.00100	mg/L	1.00	1					
Iron		1.82	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00142	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		52.2	1.60	5.00	mg/L	1.00	20	PRB	09/07/23	1038	2483979	5
Calcium		120	1.60	4.00	mg/L	1.00	20	PRB	09/06/23	1931	2483979	6
Manganese		1.34	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		638	4.76	20.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide		0.192	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		134	0.725	2.00	mg/L			JW2	09/01/23	1125	2486267	9
Bicarbonate alkalinity (CaCO ₃)		134	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03	Project: GPCC00101
Sample ID: 634768009	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-23 12:55	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/25/23	1510	2483150	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1225	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1935	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium	J	0.185	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1040	2483979	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 634768009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1129	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23 14:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.282	0.0670	0.200	mg/L		1	HXC1	08/25/23	1541	2483150	1
Fluoride		0.435	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1227	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium	J	0.115	0.0800	0.200	mg/L	1.00	1	PRB	09/07/23	1042	2483979	3
Sodium		0.352	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1938	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000812	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0180	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1417	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1130	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I	Project: GPCC00101
Sample ID: 634768011	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 13:05	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		150	1.33	4.00	mg/L		10	HXC1	08/25/23	2204	2483150	1
Fluoride	J	0.188	0.0660	0.200	mg/L		2	HXC1	08/25/23	2234	2483150	2
Chloride		6.28	0.0670	0.200	mg/L		1	HXC1	08/25/23	1612	2483150	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1232	2483668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.87	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1945	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1942	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0415	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000317	0.000300	0.00100	mg/L	1.00	1					
Iron		0.956	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.549	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000782	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1044	2483979	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		281	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	9

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-52I Project: GPCC00101
Sample ID: 634768011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		53.3	0.725	2.00	mg/L			JW2	09/01/23	1133	2486267	10
Bicarbonate alkalinity (CaCO ₃)		53.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47	Project: GPCC00101
Sample ID: 634768012	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 14:45	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.67	0.0670	0.200	mg/L		1	HXC1	08/25/23	1643	2483150	1
Fluoride		0.243	0.0330	0.100	mg/L		1					
Nitrate-N		0.117	0.0330	0.100	mg/L		1					
Sulfate		1300	26.6	80.0	mg/L		200	HXC1	08/25/23	2305	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1233	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1956	2483979	4
Arsenic	J	0.00380	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.291	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00873	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.689	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2000	2483979	5
Calcium		347	0.800	2.00	mg/L	1.00	10					
Magnesium		133	0.100	0.300	mg/L	1.00	10					
Sodium		44.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1046	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 634768012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.3	0.725	2.00	mg/L			JW2	09/01/23	1135	2486267	9
Bicarbonate alkalinity (CaCO ₃)		27.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 16:47
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	HXC1	08/25/23	1726	2483150	1
Fluoride		0.250	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		174	2.66	8.00	mg/L		20	HXC1	08/25/23	2336	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1235	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2004	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0271	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00343	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	2007	2483979	5
Calcium		69.6	1.60	4.00	mg/L	1.00	20					
Manganese		2.14	0.0200	0.100	mg/L	1.00	20					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1048	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		354	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1419	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

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

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

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		98.8	0.725	2.00	mg/L			JW2	09/01/23	1137	2486267	9
Bicarbonate alkalinity (CaCO ₃)		98.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-PZ-57I Project: GPCC00101
Sample ID: 634444001 Client ID: GPCC001
Matrix: WG
Collect Date: 21-AUG-23 17:55
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	634444002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:45		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 12:40
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.41	0.0670	0.200	mg/L		1	JLD1	08/23/23	1959	2481584	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Nitrate-N		0.212	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1209	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0916	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2308	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0434	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0390	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.95	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0877	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.18	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.81	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.63	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	6

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Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.9	0.725	2.00	mg/L			JW2	08/24/23	1610	2482476	7
Bicarbonate alkalinity (CaCO ₃)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 15:22
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/23/23	2030	2481584	1
Fluoride		0.116	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1250	13.3	40.0	mg/L		100	JLD1	08/24/23	1118	2481584	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1211	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.05	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0918	2482703	4
Calcium		414	1.60	4.00	mg/L	1.00	20					
Magnesium		63.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.40	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2312	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00183	0.000300	0.00100	mg/L	1.00	1					
Iron		0.992	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00111	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		30.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1920	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1743	2481696	7

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Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		126	0.725	2.00	mg/L			JW2	08/24/23	1612	2482476	8
Bicarbonate alkalinity (CaCO ₃)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S	Project: GPCC00101
Sample ID: 634444005	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 14:20	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		256	3.33	10.0	mg/L		25	JLD1	08/24/23	1150	2481584	1
Chloride		4.30	0.0670	0.200	mg/L		1	JLD1	08/23/23	2102	2481584	2
Fluoride	J	0.0477	0.0330	0.100	mg/L		1					
Nitrate-N		0.184	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1216	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2315	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0935	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium		0.210	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00207	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0920	2482703	5
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0922	2482703	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		412	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWC-32S Project: GPCC00101
Sample ID: 634444005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		28.6	0.725	2.00	mg/L			JW2	08/24/23	1615	2482476	9
Bicarbonate alkalinity (CaCO ₃)		28.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I	Project: GPCC00101
Sample ID: 634444006	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 16:15	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1440	26.6	80.0	mg/L		200	HXC1	08/24/23	1638	2481608	1
Chloride		15.7	0.335	1.00	mg/L		5	HXC1	08/25/23	0258	2481608	2
Fluoride		0.188	0.0330	0.100	mg/L		1	HXC1	08/23/23	1911	2481608	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1218	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		107	0.500	2.50	mg/L	1.00	500	PRB	09/01/23	0928	2482703	5
Sodium		59.6	0.800	2.50	mg/L	1.00	10	PRB	09/01/23	1032	2482703	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2319	2482703	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0127	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00145	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000496	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.757	0.000300	0.00100	mg/L	1.00	1					
Iron		0.348	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0106	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.30	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00483	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.331	0.0260	0.0750	mg/L	1.00	5	PRB	09/01/23	0951	2482703	8
Calcium		209	0.400	1.00	mg/L	1.00	5					
Magnesium		172	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	10

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-PZ-611 Project: GPCC00101
Sample ID: 634444006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		11.3	0.725	2.00	mg/L			JW2	08/24/23	1616	2482476	11
Bicarbonate alkalinity (CaCO ₃)		11.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001
Matrix: WQ
Collect Date: 22-AUG-23 14:00
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.388	0.0330	0.100	mg/L		1	HXC1	08/25/23	0227	2481608	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/23/23	1941	2481608	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1219	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2330	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000729	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00673	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0283	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.291	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0934	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1618	2482476	8
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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QC Summary

Report Date: September 7, 2023

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

Contact: Joju Abraham

Workorder: 634768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
QC1205499912	634768007	DUP									
Chloride		6.08		5.97	mg/L	1.71		(0%-20%)	JLD1	08/25/23	22:37
Fluoride	J	0.0849	J	0.0881	mg/L	3.7	^	(+/-0.100)			
Nitrate-N		0.297		0.293	mg/L	1.36	^	(+/-0.100)			
Sulfate		288		292	mg/L	1.47		(0%-20%)		08/26/23	19:08
QC1205499911	LCS										
Chloride	5.00			4.84	mg/L			96.7 (90%-110%)		08/26/23	00:42
Fluoride	2.50			2.57	mg/L			103 (90%-110%)			
Nitrate-N	2.50			2.40	mg/L			96 (90%-110%)			
Sulfate	10.0			9.88	mg/L			98.8 (90%-110%)			
QC1205499910	MB										
Chloride			U	ND	mg/L					08/26/23	00:11
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499913	634768007	PS									
Chloride	5.00	6.08		11.6	mg/L			110 (90%-110%)		08/25/23	23:08

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
Fluoride	2.50	J	0.0849	2.82	mg/L		109	(90%-110%)	JLD1	08/25/23	23:08
Nitrate-N	2.50		0.297	2.74	mg/L		97.6	(90%-110%)			
Sulfate	10.0		11.5	21.8	mg/L		103	(90%-110%)		08/26/23	19:39
Batch	2483150										
QC1205499980	634784001 DUP										
Chloride			4.43	4.44	mg/L	0.11		(0%-20%)	HXC1	08/25/23	18:28
Fluoride			0.334	0.337	mg/L	0.983	^	(+/-0.100)			
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66	^	(+/-0.100)		
Sulfate			293	294	mg/L	0.0981		(0%-20%)		08/26/23	00:38
QC1205499979	LCS										
Chloride	5.00			4.79	mg/L		95.9	(90%-110%)		08/25/23	21:02
Fluoride	2.50			2.49	mg/L		99.6	(90%-110%)			
Nitrate-N	2.50			2.38	mg/L		95.4	(90%-110%)			
Sulfate	10.0			9.79	mg/L		97.9	(90%-110%)			
QC1205499978	MB										
Chloride			U	ND	mg/L					08/25/23	19:29
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483150										
Sulfate			U	ND	mg/L				HXC1	08/25/23	19:29
QC1205499981 634784001 PS											
Chloride	5.00	4.43		9.90	mg/L		109	(90%-110%)		08/25/23	18:59
Fluoride	2.50	0.334		2.76	mg/L		97	(90%-110%)			
Nitrate-N	2.50	J 0.0807		2.45	mg/L		94.7	(90%-110%)			
Sulfate	10.0	7.33		17.7	mg/L		103	(90%-110%)		08/26/23	01:09
Metals Analysis - ICPMS											
Batch	2483979										
QC1205501592 LCS											
Antimony	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	09/06/23	18:04
Arsenic	0.0500			0.0507	mg/L		101	(80%-120%)			
Barium	0.0500			0.0497	mg/L		99.5	(80%-120%)			
Beryllium	0.0500			0.0581	mg/L		116	(80%-120%)			
Boron	0.100			0.110	mg/L		110	(80%-120%)			
Cadmium	0.0500			0.0516	mg/L		103	(80%-120%)			
Calcium	2.00			2.10	mg/L		105	(80%-120%)			
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)			
Cobalt	0.0500			0.0507	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Iron	2.00			2.01	mg/L		101	(80%-120%)	PRB	09/06/23	18:04
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)			
Magnesium	2.00			2.08	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)			
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)			
Sodium	2.00			2.25	mg/L		112	(80%-120%)			
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)			
QC1205501591	MB										
Antimony			U	ND	mg/L					09/06/23	18:00
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cadmium			U	ND	mg/L				PRB	09/06/23	18:00
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205501593	634768003	MS									
Antimony	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)		09/06/23	18:18

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Arsenic	0.0500	U	ND	0.0514	mg/L		99.8	(75%-125%)	PRB	09/06/23	18:18
Barium	0.0500		0.0151	0.0634	mg/L		96.5	(75%-125%)			
Beryllium	0.0500	U	ND	0.0551	mg/L		110	(75%-125%)			
Boron	0.100		1.25	1.39	mg/L		N/A	(75%-125%)		09/06/23	18:44
Cadmium	0.0500	U	ND	0.0492	mg/L		98.3	(75%-125%)		09/06/23	18:18
Calcium	2.00		74.4	76.1	mg/L		N/A	(75%-125%)		09/06/23	18:44
Chromium	0.0500	U	ND	0.0497	mg/L		99	(75%-125%)		09/06/23	18:18
Cobalt	0.0500		0.00601	0.0548	mg/L		97.6	(75%-125%)			
Iron	2.00	J	0.0749	2.05	mg/L		98.8	(75%-125%)			
Lead	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)			
Lithium	0.0500	U	ND	0.0547	mg/L		107	(75%-125%)			
Magnesium	2.00		6.53	8.41	mg/L		94.2	(75%-125%)			
Manganese	0.0500		0.458	0.511	mg/L		N/A	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Potassium	2.00		4.90	6.94	mg/L		102	(75%-125%)			

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QC Summary

Workorder: 634768

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Selenium	0.0500	U	ND	0.0488	mg/L		97.5	(75%-125%)	PRB	09/06/23	18:18
Sodium	2.00		16.3	18.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0490	mg/L		98	(75%-125%)			
QC1205501594	634768003 MSD										
Antimony	0.0500	U	ND	0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23	18:22
Arsenic	0.0500	U	ND	0.0495	mg/L	3.85	96	(0%-20%)			
Barium	0.0500		0.0151	0.0615	mg/L	3	92.7	(0%-20%)			
Beryllium	0.0500	U	ND	0.0552	mg/L	0.165	110	(0%-20%)			
Boron	0.100		1.25	1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23	18:47
Cadmium	0.0500	U	ND	0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23	18:22
Calcium	2.00		74.4	74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23	18:47
Chromium	0.0500	U	ND	0.0482	mg/L	3.1	96	(0%-20%)		09/06/23	18:22
Cobalt	0.0500		0.00601	0.0529	mg/L	3.54	93.8	(0%-20%)			
Iron	2.00	J	0.0749	1.96	mg/L	4.48	94.3	(0%-20%)			
Lead	0.0500	U	ND	0.0491	mg/L	2.44	98.1	(0%-20%)			
Lithium	0.0500	U	ND	0.0532	mg/L	2.78	104	(0%-20%)			

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Magnesium	2.00	6.53		8.23	mg/L	2.18	85.2	(0%-20%)	PRB	09/06/23	18:22
Manganese	0.0500	0.458		0.493	mg/L	3.49	N/A	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0513	mg/L	2.83	102	(0%-20%)			
Potassium	2.00	4.90		6.74	mg/L	2.93	92.1	(0%-20%)			
Selenium	0.0500	U	ND	0.0468	mg/L	4.28	93.4	(0%-20%)			
Sodium	2.00	16.3		17.9	mg/L	0.949	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0473	mg/L	3.67	94.4	(0%-20%)			
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		15.1	J	3.20	ug/L	5.84		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23	18:51
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Calcium		3720		786	ug/L	5.58		(0%-20%)		09/06/23	18:51
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cobalt		6.01		1.25	ug/L	4.24		(0%-20%)	PRB	09/06/23	18:29
Iron	J	74.9	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		6530		1280	ug/L	1.77		(0%-20%)			
Manganese		458		91.7	ug/L	.114		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		4900		968	ug/L	1.19		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		16300		3340	ug/L	2.56		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483668										
QC1205500965	634563009	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23	11:59
QC1205500964	LCS										
Mercury		0.00200		0.00214	mg/L		107	(80%-120%)		08/29/23	11:56
QC1205500963	MB										
Mercury			U	ND	mg/L					08/29/23	11:54

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483668										
QC1205500966	634563009	MS									
Mercury	0.00200	U	ND	0.00211	mg/L		106	(75%-125%)	AXS5	08/29/23	12:00
QC1205500967	634563009	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/29/23	12:02
Solids Analysis											
Batch	2484591										
QC1205502656	634511009	DUP									
Total Dissolved Solids			190	201	mg/L	5.63*		(0%-5%)	CH6	08/30/23	16:48
QC1205502655	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	16:48
QC1205502654	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	16:48
Batch	2484594										
QC1205502665	634784001	DUP									
Total Dissolved Solids			499	515	mg/L	3.16		(0%-5%)	CH6	08/30/23	17:18
QC1205502664	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	17:18
QC1205502663	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	17:18
Spectrometric Analysis											
Batch	2483133										
QC1205499947	LCS										
Total Sulfide	0.400			0.396	mg/L		99	(85%-115%)	JW2	08/25/23	14:10
QC1205499946	MB										
Total Sulfide			U	ND	mg/L					08/25/23	14:10

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2483133										
QC1205499950	634768004	PS									
Total Sulfide	0.400	U	ND	0.266	mg/L		65.8*	(75%-125%)	JW2	08/25/23	14:14
QC1205499951	634768004	PSD									
Total Sulfide	0.400	U	ND	0.273	mg/L	2.59	67.5*	(0%-15%)		08/25/23	14:15
<hr/>											
Batch	2483779										
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
<hr/>											
Titration and Ion Analysis											
Batch	2486267										
QC1205505693	LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23	11:10
QC1205505710	LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23	11:11

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2486267										
QC1205506027	LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)	JW2	09/01/23	11:11
QC1205506195	LCSD										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23	11:11

Notes:

The Qualifiers in this report are defined as follows:

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

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QC Summary

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

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QC Summary

Report Date: September 6, 2023

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

Contact: Joju Abraham

Workorder: 634444

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
QC1205497354	634441001	DUP									
Chloride		32.7		32.5	mg/L	0.522	^	(+/-10.0)	JLD1	08/24/23	01:49
Fluoride		0.123		0.124	mg/L	1.13	^	(+/-0.100)		08/24/23	00:14
Nitrate-N	J	0.0707	J	0.0739	mg/L	4.43	^	(+/-0.100)			
Sulfate		466		474	mg/L	1.69		(0%-20%)		08/24/23	01:49
QC1205497353	LCS										
Chloride	5.00			4.64	mg/L			92.8 (90%-110%)		08/23/23	23:42
Fluoride	2.50			2.37	mg/L			94.6 (90%-110%)			
Nitrate-N	2.50			2.27	mg/L			91 (90%-110%)			
Sulfate	10.0			9.48	mg/L			94.8 (90%-110%)			
QC1205497352	MB										
Chloride			U	ND	mg/L					08/23/23	23:10
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497355	634441001	PS									
Chloride	5.00	0.654		5.10	mg/L			88.9* (90%-110%)		08/24/23	02:21

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
Fluoride	2.50	0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23	00:45
Nitrate-N	2.50	J 0.0707		2.29	mg/L		88.7*	(90%-110%)			
Sulfate	10.0	9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23	02:21
Batch	2481608										
QC1205497371	634145003 DUP										
Nitrite-N		0.000		0.000	mg/L	0	^	(+/-2.50)	HXC1	08/24/23	15:05
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)			
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)			
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Nitrate-N			U	ND	mg/L				HXC1	08/23/23	22:47
Sulfate			U	ND	mg/L						
QC1205497373 634145003 PS											
Nitrite-N	2.50	0.000		2.54	mg/L		101	(90%-110%)		08/24/23	15:36
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)			
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)		08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)	PRB	08/31/23	22:21
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)			
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164 MB											
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Beryllium			U	ND	mg/L				PRB	08/31/23	22:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

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QC Summary

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Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium			U	ND	mg/L				PRB	08/31/23	22:18
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			
Beryllium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Boron	0.100		1.90	2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4	88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND	0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384	0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND	2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND	0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9	21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33	3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)	PRB	08/31/23	22:36
Potassium	2.00		3.52	5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7	23.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)			
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)	PRB	08/31/23	22:39
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)		08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Calcium		4170		869	ug/L	4.2		(0%-20%)	PRB	09/01/23	09:04
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Cobalt		3.84	J	0.796	ug/L	3.56		(0%-20%)			
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499045	LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)	JP2	08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002	MS									
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26
QC1205499048	634447002	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077	634352015	DUP									
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A		CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2482476										
QC1205498938	LCS										
Alkalinity, Total as CaCO3	50.0			50.2	mg/L		100	(90%-110%)	JW2	08/24/23	15:56
QC1205499028	LCSD										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L	0.991	101	(0%-20%)		08/24/23	15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

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

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

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QC Summary

Report Date: September 8, 2023

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

Contact: Joju Abraham

Workorder: 634650

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
QC1205499056	634643001	DUP									
Chloride		2.56		2.56	mg/L	0.235		(0%-20%)	LXA2	08/24/23	23:40
Fluoride		2.34		2.35	mg/L	0.435		(0%-20%)			
Nitrate-N	J	0.0737	J	0.0724	mg/L	1.78	^	(+/-0.100)			
Sulfate		761		761	mg/L	0.0329		(0%-20%)		08/25/23	15:38
QC1205499055	LCS										
Chloride	5.00			4.61	mg/L		92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50			2.40	mg/L		96	(90%-110%)			
Nitrate-N	2.50			2.31	mg/L		92.4	(90%-110%)			
Sulfate	10.0			9.50	mg/L		95	(90%-110%)			
QC1205499054	MB										
Chloride			U	ND	mg/L					08/24/23	23:09
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499057	634643001	PS									
Chloride	5.00	2.56		7.48	mg/L		98.4	(90%-110%)		08/25/23	00:11

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QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
Fluoride	2.50	2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23	00:11
Nitrate-N	2.50	J 0.0737		2.40	mg/L		92.9	(90%-110%)			
Sulfate	10.0	7.61		17.7	mg/L		101	(90%-110%)		08/25/23	16:09
Batch	2482649										
QC1205499060	634519001 DUP										
Chloride		1.63		1.64	mg/L	0.527		(0%-20%)	JLD1	08/25/23	01:21
Fluoride		U ND	U	ND	mg/L	N/A					
Nitrate-N		U ND	U	ND	mg/L	N/A					
Sulfate		44.9		44.7	mg/L	0.427		(0%-20%)		08/25/23	12:06
QC1205499059	LCS										
Chloride	5.00			4.86	mg/L		97.2	(90%-110%)		08/25/23	03:27
Fluoride	2.50			2.58	mg/L		103	(90%-110%)			
Nitrate-N	2.50			2.42	mg/L		96.9	(90%-110%)			
Sulfate	10.0			9.95	mg/L		99.5	(90%-110%)			
QC1205499058	MB										
Chloride			U	ND	mg/L					08/25/23	02:55
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482649										
Sulfate			U	ND	mg/L				JLD1	08/25/23	02:55
QC1205499061 634519001 PS											
Chloride	5.00	1.63		6.55	mg/L		98.5	(90%-110%)		08/25/23	01:52
Fluoride	2.50	U	ND	2.54	mg/L		102	(90%-110%)			
Nitrate-N	2.50	U	ND	2.52	mg/L		101	(90%-110%)			
Sulfate	10.0	8.97		24.7	mg/L		157*	(90%-110%)		08/25/23	12:37
Metals Analysis - ICPMS											
Batch	2482707										
QC1205499175 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	09/08/23	11:22
Arsenic	0.0500			0.0510	mg/L		102	(80%-120%)			
Barium	0.0500			0.0569	mg/L		114	(80%-120%)			
Beryllium	0.0500			0.0494	mg/L		98.8	(80%-120%)			
Boron	0.100			0.0988	mg/L		98.8	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			2.11	mg/L		106	(80%-120%)			
Chromium	0.0500			0.0485	mg/L		97	(80%-120%)			
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)			

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QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Iron	2.00			1.98	mg/L		99.2	(80%-120%)	PRB	09/08/23	11:22
Lead	0.0500			0.0508	mg/L		102	(80%-120%)			
Lithium	0.0500			0.0466	mg/L		93.2	(80%-120%)			
Magnesium	2.00			1.90	mg/L		94.8	(80%-120%)			
Manganese	0.0500			0.0485	mg/L		96.9	(80%-120%)			
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)			
Potassium	2.00			2.08	mg/L		104	(80%-120%)			
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)			
Sodium	2.00			1.97	mg/L		98.4	(80%-120%)			
Thallium	0.0500			0.0493	mg/L		98.6	(80%-120%)			
QC1205499174	MB										
Antimony			U	ND	mg/L					09/08/23	11:17
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cadmium			U	ND	mg/L				PRB	09/08/23	11:17
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499176	634650001	MS									
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		09/08/23	13:21

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Arsenic	0.0500	U	ND	0.0551	mg/L		107	(75%-125%)	PRB	09/08/23	13:21
Barium	0.0500		0.0149	0.0690	mg/L		108	(75%-125%)			
Beryllium	0.0500	U	ND	0.0508	mg/L		102	(75%-125%)			
Boron	0.100		0.430	0.549	mg/L		N/A	(75%-125%)		09/08/23	11:34
Cadmium	0.0500	J	0.000679	0.0526	mg/L		104	(75%-125%)		09/08/23	13:21
Calcium	2.00		217	222	mg/L		N/A	(75%-125%)		09/08/23	11:34
Chromium	0.0500	U	ND	0.0505	mg/L		100	(75%-125%)		09/08/23	13:21
Cobalt	0.0500		0.0259	0.0776	mg/L		104	(75%-125%)			
Iron	2.00		0.136	2.16	mg/L		101	(75%-125%)			
Lead	0.0500	U	ND	0.0514	mg/L		103	(75%-125%)			
Lithium	0.0500		0.0221	0.0704	mg/L		96.6	(75%-125%)			
Magnesium	2.00		133	137	mg/L		N/A	(75%-125%)		09/08/23	11:34
Manganese	0.0500		49.9	51.3	mg/L		N/A	(75%-125%)		09/08/23	11:50
Molybdenum	0.0500	U	ND	0.0562	mg/L		112	(75%-125%)		09/08/23	13:21
Potassium	2.00		11.2	13.4	mg/L		N/A	(75%-125%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Selenium	0.0500	U	ND	0.0554	mg/L		108	(75%-125%)	PRB	09/08/23	13:21
Sodium	2.00		43.6	46.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0505	mg/L		101	(75%-125%)			
QC1205499177	634650001 MSD										
Antimony	0.0500	U	ND	0.0526	mg/L	0.167	105	(0%-20%)		09/08/23	13:24
Arsenic	0.0500	U	ND	0.0552	mg/L	0.131	107	(0%-20%)			
Barium	0.0500		0.0149	0.0700	mg/L	1.5	110	(0%-20%)			
Beryllium	0.0500	U	ND	0.0509	mg/L	0.185	102	(0%-20%)			
Boron	0.100		0.430	0.530	mg/L	3.51	N/A	(0%-20%)		09/08/23	11:37
Cadmium	0.0500	J	0.000679	0.0533	mg/L	1.38	105	(0%-20%)		09/08/23	13:24
Calcium	2.00		217	222	mg/L	0.0188	N/A	(0%-20%)		09/08/23	11:37
Chromium	0.0500	U	ND	0.0513	mg/L	1.54	102	(0%-20%)		09/08/23	13:24
Cobalt	0.0500		0.0259	0.0786	mg/L	1.3	106	(0%-20%)			
Iron	2.00		0.136	2.20	mg/L	1.59	103	(0%-20%)			
Lead	0.0500	U	ND	0.0522	mg/L	1.56	104	(0%-20%)			
Lithium	0.0500		0.0221	0.0711	mg/L	0.982	98	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Magnesium	2.00	133		136	mg/L	0.591	N/A	(0%-20%)	PRB	09/08/23	11:37
Manganese	0.0500	49.9		51.7	mg/L	0.658	N/A	(0%-20%)		09/08/23	11:53
Molybdenum	0.0500	U	ND	0.0564	mg/L	0.314	113	(0%-20%)		09/08/23	13:24
Potassium	2.00	11.2		13.5	mg/L	0.441	N/A	(0%-20%)			
Selenium	0.0500	U	ND	0.0562	mg/L	1.52	110	(0%-20%)			
Sodium	2.00	43.6		46.9	mg/L	1.78	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0510	mg/L	0.921	102	(0%-20%)			
QC1205499178 634650001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		14.9	J	2.93	ug/L	2.02		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		86.1		19.1	ug/L	10.8		(0%-20%)		09/08/23	11:44
Cadmium		J	0.679	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Calcium		43400		8860	ug/L	2.09		(0%-20%)		09/08/23	11:44
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cobalt		25.9		5.46	ug/L	5.64		(0%-20%)	PRB	09/08/23	13:30
Iron		136	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		22.1	J	4.79	ug/L	8.29		(0%-20%)			
Magnesium		26700		5680	ug/L	6.41		(0%-20%)		09/08/23	11:44
Manganese		499		105	ug/L	5.59		(0%-20%)		09/08/23	11:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23	13:30
Potassium		11200		2280	ug/L	1.26		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		43600		9440	ug/L	8.17		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483666										
QC1205500954	LCS										
Mercury	0.00200			0.00207	mg/L		103	(80%-120%)	AXS5	08/29/23	11:03
QC1205500952	MB										
Mercury			U	ND	mg/L					08/29/23	11:02
QC1205500956	634765001	MS									
Mercury	0.0200	U	ND	0.0207	mg/L		103	(75%-125%)		08/29/23	11:37

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483666										
QC1205500957	634765001	MSD									
Mercury	0.0200	U	ND	0.0210	mg/L	1.82	105	(0%-20%)	AXS5	08/29/23	11:39
QC1205500958	634765001	SDILT									
Mercury		U	ND	ND	ug/L	N/A		(0%-10%)		08/29/23	11:41
Solids Analysis											
Batch	2484234										
QC1205502076	634643001	DUP									
Total Dissolved Solids			1270	1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03
Batch	2484583										
QC1205502645	634927001	DUP									
Total Dissolved Solids		U	ND	ND	mg/L	N/A			CH6	08/30/23	15:42
QC1205502641	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/30/23	15:42
QC1205502642	LCSD										
Total Dissolved Solids	300			304	mg/L	1.32	101	(0%-5%)		08/30/23	15:42
QC1205502640	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	15:42
Spectrometric Analysis											
Batch	2482961										
QC1205499656	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42

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QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2482961										
QC1205499655	MB										
Total Sulfide			U	ND	mg/L				JW2	08/25/23	10:42
QC1205499657	634513005	PS									
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48
QC1205499658	634513005	PSD									
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23	10:48
<hr/>											
Batch	2483779										
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
<hr/>											
Titration and Ion Analysis											
Batch	2486265										
QC1205505688	LCS										
Alkalinity, Total as CaCO3	50.0			51.7	mg/L		103	(90%-110%)	JW2	09/01/23	10:39

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2486265										
QC1205505709	LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)	JW2	09/01/23	10:41
QC1205506026	LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.388	103	(0%-20%)		09/01/23	10:40
QC1205506194	LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	1.97	103	(0%-20%)		09/01/23	10:42

Notes:

The Qualifiers in this report are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
B											
The target analyte was detected in the associated blank.											
e											
5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes											
J											
See case narrative for an explanation											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634768**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2483979

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2483978

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205501591	Method Blank (MB) ICP-MS
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768011

(BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634768003 (BRA-BRGWC-27I), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634768							
	003	005	006	007	008	011	012	013
Boron	20X	20X	20X	20X	1X	20X	10X	20X
Calcium	20X	1X	20X	20X	20X	1X	10X	20X
Magnesium	1X	1X	1X	1X	1X	1X	10X	1X
Manganese	1X	1X	1X	20X	20X	1X	1X	20X
Sodium	1X	1X	1X	1X	20X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483667

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205500963	Method Blank (MB)CVAA

1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483105

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
1205499910	Method Blank (MB)
1205499911	Laboratory Control Sample (LCS)
1205499912	634768007(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205499913	634768007(BRA-BRGWC-29I) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205499912 (BRA-BRGWC-29IDUP), 1205499913 (BRA-BRGWC-29IPS), 634768001 (BRA-APBCD-FD-03), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I) and 634768007 (BRA-BRGWC-29I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768					
	001	003	004	005	006	007
Chloride	10X	1X	10X	1X	25X	1X
Sulfate	10X	10X	10X	20X	25X	25X

Miscellaneous Information

Manual Integrations

Samples 634768001 (BRA-APBCD-FD-03) and 634768004 (BRA-BRGWC-45) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483150

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634768011 (BRA-BRGWC-52I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768			
	008	011	012	013

Chloride	40X	1X	1X	1X
Fluoride	1X	2X	1X	1X
Sulfate	40X	10X	200X	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484591

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
1205502654	Method Blank (MB)
1205502655	Laboratory Control Sample (LCS)
1205502656	634511009(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

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

Analyte	Sample	Value
Total Dissolved Solids	1205502656 (Non SDG 634511009DUP)	5.63* (0%-5%)

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484594

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I

634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634768008 (BRA-PZ-51D) and 634768012 (BRA-BRGWC-47).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483133

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768004	BRA-BRGWC-45
634768006	BRA-PZ-74I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499946	Method Blank (MB)
1205499947	Laboratory Control Sample (LCS)
1205499950	634768004(BRA-BRGWC-45) Post Spike (PS)
1205499951	634768004(BRA-BRGWC-45) Post Spike Duplicate (PSD)

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

Data Summary:

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

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205499950 (BRA-BRGWC-45PS)	65.8* (75%-125%)
	1205499951 (BRA-BRGWC-45PSD)	67.5* (75%-125%)

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768003	BRA-BRGWC-27I
634768005	BRA-PZ-75I
634768007	BRA-BRGWC-29I
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)

	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486267

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768010 (BRA-APBCD-EB-06), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

Certification Statement

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634650**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482707

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482706

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499174	Method Blank (MB) ICP-MS
1205499175	Laboratory Control Sample (LCS)
1205499178	634650001(BRA-PZ-51IL) Serial Dilution (SD)
1205499176	634650001(BRA-PZ-51IS) Matrix Spike (MS)
1205499177	634650001(BRA-PZ-51ISD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 634650005 (BRA-PZ-63I), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	634650									
	001	002	004	005	006	007	009	010	011	013
Beryllium	1X	5X	1X	10X	1X	1X	5X	10X	5X	1X
Boron	5X	5X	10X	10X	1X	5X	5X	10X	5X	10X
Calcium	5X	5X	10X	10X	10X	5X	5X	10X	5X	1X
Cobalt	1X	5X	10X	1X	1000X	1X	5X	1X	5X	1X
Iron	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	5X	5X	10X	10X	10X	1X	5X	10X	5X	1X
Manganese	100X	100X	1000X	10X	1000X	5X	100X	10X	100X	1X
Potassium	1X	1X	10X	1X	10X	5X	1X	1X	5X	1X
Sodium	1X	5X	10X	10X	10X	5X	5X	10X	5X	1X

Analyte	634650
	014
Beryllium	5X
Boron	5X
Calcium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	5X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483666

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483665

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

GEL Sample ID#

634650001

Client Sample Identification

BRA-PZ-51I

634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205500952	Method Blank (MB)CVAA
1205500954	Laboratory Control Sample (LCS)
1205500958	634765001(NonSDGL) Serial Dilution (SD)
1205500956	634765001(NonSDGS) Matrix Spike (MS)
1205500957	634765001(NonSDGSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Technical Information

Preparation Information

Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205500956 (Non SDG 634765001MS), 1205500957 (Non SDG 634765001MSD) and 1205500958 (Non SDG 634765001SDILT).

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482641

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650006	BRA-PZ-64I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650			
	001	002	004	006
Chloride	1X	5X	10X	20X
Sulfate	100X	100X	200X	200X

Miscellaneous Information

Manual Integrations

Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I) and 634650004 (BRA-PZ-60I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482649

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650005	BRA-PZ-63I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499058	Method Blank (MB)
1205499059	Laboratory Control Sample (LCS)
1205499060	634519001(NonSDG) Sample Duplicate (DUP)
1205499061	634519001(NonSDG) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205499061 (Non SDG 634519001PS)	157* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650						
	005	007	009	010	011	013	014
Chloride	1X	25X	5X	1X	5X	1X	5X
Sulfate	25X	25X	200X	25X	200X	5X	100X

Miscellaneous Information

Manual Integrations

Samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484234

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I

634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484583

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205502640	Method Blank (MB)
1205502641	Laboratory Control Sample (LCS)
1205502642	Laboratory Control Sample Duplicate (LCSD)
1205502645	634927001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634650009 (BRA-APBCD-FD-01), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650014	BRA-PZ-50D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486265

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205505688	Laboratory Control Sample (LCS)
1205505709	Laboratory Control Sample (LCS)
1205506026	Laboratory Control Sample Duplicate (LCSD)
1205506194	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650008 (BRA-APBCD-FB-02), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650012 (BRA-APBCD-EB-04), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D).

Certification Statement

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634444**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S) and 634444006 (BRA-PZ-61I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634444		
	004	005	006
Boron	20X	10X	5X
Calcium	20X	1X	5X
Magnesium	20X	1X	5X
Manganese	20X	1X	500X
Sodium	1X	1X	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481584

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481584

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634444004 (BRA-BRGWC-30I) and 634444005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444	
	004	005
Sulfate	100X	25X

Miscellaneous Information

Manual Integrations

Samples 634444003 (BRA-BRGWA-23S) and 634444005 (BRA-BRGWC-32S) were manually integrated to

correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481608

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP), 1205497373 (Non SDG 634145003PS) and 634444006 (BRA-PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444
	006
Chloride	5X
Sulfate	200X

Sample Re-analysis

Sample 634444007 (BRA-APBCD-FB-01) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482655

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634444004 (BRA-BRGWC-30I) and 634444006 (BRA-PZ-61I).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444001	BRA-PZ-57I
634444002	BRA-PZ-65I
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2482476

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634444003 (BRA-BRGWA-23S), 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S), 634444006 (BRA-PZ-61I) and 634444007 (BRA-APBCD-FB-01).

Certification Statement

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

634652

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

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

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Phone # 404-506-7116
 Fax # _____

Collected By: *D. Benjfield* ACC
 Send Results To: SCS & Geosyntec Contacts

Sample ID
 *For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)
BRA-PZ-51I	08/23/23	1500	G	N	WG
BRA-PZ-58I	08/23/23	1510	G	N	WG
BRA-PZ-59I	08/23/23	1140	G	N	WG
BRA-PZ-60I	08/23/23	1325	G	N	WG
BRA-PZ-63I	08/23/23	1630	G	N	WG
BRA-PZ-64I	08/23/23	1055	G	N	WG
BRA-PZ-68D	08/23/23	1608	G	N	WG
BRA-APBCD-FB-02	08/23/23	1450	G	N	WG
BRA-APBCD-FD-01	08/23/23	—	G	N	WG
BRA-APBCD-FD-02	08/23/23	—	G	N	WG

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____

1. *Erin Trent* 08/23/23 0841
 2. *Erin Trent* 08/24/23 1243
 3. _____ 3

Chain of Custody Signatures

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

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

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

Sample Collection Time Zone: Eastern Pacific Mountain Other:

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

KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other
RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste/ (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

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

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA, 30308
 Collected By: J. Bennett ACC
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radiative (f) Yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRA-BR6WC-50	08/23/23	1100	G	N	WG			8	NI	NI	NI	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-EB-04	08/23/23	1135	G	N	WG			8	NI	NI	NI	
BRA-P2-44	08/23/23	1640	G	N	WG			8	NI	NI	NI	
BRA-P2-50D	08/23/23	1230	G	N	WG			8	NI	NI	NI	
BRA-												
BRA-												
BRA-												
BRA-												
BRA-												
BRA-												

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
[Signature]	8/24/23	[Signature]	8/24/23	8:41
[Signature]	8/24/23	[Signature]	8/24/23	12:43
[Signature]	8/24/23	[Signature]	8/24/23	12:53

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

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

Characteristic Hazards	Listed Waste	Other
FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
 PCB = Polychlorinated biphenyls

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

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:	
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-3 ^B cooler 3-3 ^B cooler 2-3 ^B cooler 4-2 ^B cooler 5-3 ^B	
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria		Yes	No
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments (Use Continuation Form if needed): cooler 6-1 cooler 7-2 cooler 8-4 cooler 9-1			

TEMP: See coolers above & below for temps

Sample ID's and Containers Affected: See continuation form

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



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

- BRA-P2-511
- BRA-P2-591
- BRA-BRGWC-355
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-385
- BRA-P2-641
- BRA-P2-68D
- BRA-APBCD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

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

ET

Relog, Radium
for

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

Project # _____ of _____
GEL Quote # _____
COC Number 01 _____
PO Number _____

Client Name: GA Power
Project/Site Name: Plant Branch Ash Pond - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC

Phone # 404-506-7116
Fax # _____

Sample ID
• For compatibilities - indicate start and stop date/time

Sample ID	Date Collected (mm/dd/yy)	*Time Collected (Military)	QC Code (b)	Field Filtered (b)	Sample Matrix (b)	Radonactive (if isotopic info)	Yes, please supply	(7) Known or possible hazards	Total number of containers	GI, P, SO4, TDS, NO3, NH4, Cu, K, Fe, Pb, Mn	Mercury	As, Se, Cd, Ni, Cr, V, Hg, Pb, Zn, Co, Ni, Cu, Cr, Co, Pb, Li, Mn, Se, Ti, Fe, Ni, Mo, Ni, K, Na, Hg	SW-846 913, 930	SW-846 913, 930	Comments
BRA-APBCD-FD-03	08/24/23	0955	G	N	WG				8						Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-E3-05	08/24/23	0955	G	N	WQ				8						
BRA-BRGWL-27I	08/24/23	1225	G	N	WQ				8						
BRA-BRGWL-45	08/24/23	1206	G	N	WQ				8						
BRA-PZ-75I	08/24/23	1051	G	N	WQ				8						
BRA-PZ-74I	08/24/23	1415	G	N	WQ				8						
BRA-BRGWL-29I	08/24/23	1520	G	N	WQ				8						
BRA-PZ-51D	08/24/23	1100	G	N	WQ				8						
BRA-APBCD-FB-03	08/24/23	1255	G	N	WQ				8						
BRA-APBCD-E3-06	08/24/23	1400	G	N	WQ				8						

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

Relinquished By (Signed) _____ Date 08/24/23 Time _____
Received by (signed) _____ Date _____ Time _____

Chain of Custody Signatures

1) Field Filtered: For liquid matrices, indicate with L & Y - for yet the sample was field filtered
2) Matrix Codes: WD=Drinking Water, WC=Cooling Water, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sludge, SI=Sludge, WQ=Water Quality Control Matrix
3) Sample Analysis Requested: Analytical method requested (i.e. B2400, 6010B7470A) and number of containers provided for each (i.e. #2600 - 3, 6010B7470A - 1)
4) Preservative Type: HA = Hydrofluoric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Acetic Acid, BX = Ilex Acid, SF = Sodium Fluoride, If no preservative is added = leave field blank
5) KNOWN OR POSSIBLE HAZARDS
6) Characteristic Hazards: FL = Flammable/ignitable, LW = Listed Waste (F, K, P and U-haz waste), RE = Reactive
7) RCRA Metals: AS = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
Pb = Lead
8) TSCA Regulated: PCB = polychlorinated biphenyls

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

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

034768 & 034781

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analyticals
 Chain of Custody and Analytical Request
 GEL Project Manager: Erik Trent

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

Project # _____ of _____
 GEL Quota # _____
 COC Number (1) _____
 PO Number _____

GEL Work Order Number: _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

Phone # 404-506-7116
 Fax # _____

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID <small>* For comparison - indicate start and stop date/time</small>	Date Collected (mm/dd/yyyy)	Time Collected (Military)	QC Code in (Library)	Field Filtered (N)	Sample Matrix (WG)	Total number of containers		Should this sample be considered: (If yes, please supply rationale info)	Preservative Type (6)	Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
						(7) Known or (7) Hazards	(7) Known or (7) Hazards			
BRA- BR6WC-52I	08/24/23	1305	G	N	WG	3	3			
BRA- BR6WC-47	08/24/23	1445	G	N	WG	3	3			
BRA- BR6WC-25I	08/24/23	1647	G	N	WG	3	3			
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Send Results To: SCS & Geosynthetic Contacts

Additional Remarks: * Metals: B, Co, Sb, Ba, Be, Cd, Cr, Cu, Pb, Li, Mn, Se, Ti, Fe, Mg, Mo, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Prices? [] Yes [] No Cooler Temp: _____ °C
 Sample Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other:

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

Chain of Custody Signatures

Requested By (Signed)	Date	Time	Received By (Signed)	Date	Time
<i>[Signature]</i>	8/24/23				

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

1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EM = Equipment Blank, MS = Matrix Spike Sample, MSP = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Notes: For liquid matrices, indicate vials as - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4) Matrix Codes: W = Drinking Water, WC = Groundwater, WS = Surface Water, WTS = Treated Water, WTS-Sediment, SO = Soil, SPS = Sediment, SL = Sludge, WQ = Water Quality Control Matrix
 5) Sample Analysis Requested: Analytical method requested (e.g. H4603, 6010B, 4710A) and number of containers provided for each (e.g. 2/603 - 3, 4010B/4710A - 1).
 6) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SB = Sodium Hydroxide, SA = Sulfuric Acid, AA = Acetic Acid, BX = Hexose, ST = Sodium Thiosulfate. The preservative is added = have field blank
 7) KNOWN OR POSSIBLE HAZARDS

Characteristics Hazards
 FL = Flammable/ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

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

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

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

634768 634781

Page: 1 of 2
 Project # _____ of _____
 GEL Quote #: _____
 COC Number 0: _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

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

GEL Work Order Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC

Sample ID
 * For composites - indicate start and stop date/time

Sample ID	Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code	Field Filtered	Sample Matrix
BRA-APBCD-FD-03	08/24/23	0955	G	N	WG
BRA-APBCD-EB-05	08/24/23	1225	G	N	WG
BRA-BRGWC-27I	08/24/23	1206	G	N	WG
BRA-BRGWC-45	08/24/23	1051	G	N	WG
BRA-PZ-75I	08/24/23	1415	G	N	WG
BRA-PZ-74I	08/24/23	1520	G	N	WG
BRA-BRGWC-29J	08/24/23	1100	G	N	WG
BRA-PC-51D	08/24/23	1255	G	N	WG
BRA-APBCD-FB-03	08/24/23	1400	G	N	WG
BRA-APBCD-EB-06	08/24/23				

Send Results To: SCS & Geosyntec Contacts
 *Time Collected (Military) (hh:mm)
 QC Code
 Field Filtered
 Sample Matrix

Should this sample be considered:
 (1) Known or possible hazards
 Yes, please specify (toxic info.)
 Total number of containers

Should this sample be considered:	(1) Known or possible hazards	Total number of containers	CP, R, S04, TDS, N03	HPA 300, SM 2540C	Toxic, Carb. & Heavy Air	Metals * SM 220B	BPA 6020, 6910, 7470	Radium 226 & 228 SW-846 9315, 9320	SM 4500 SM 4500	Preservative Type (6)	Comments
		8	✓	✓	✓	✓	✓	✓	✓	←	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		
		8	✓	✓	✓	✓	✓	✓	✓		

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 08/24/23 Time 1730
 1. _____
 2. _____
 3. _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 Chain of Custody Number = Client Determined
 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for no. For solid samples, indicate with a - Y - for yes the sample was field filtered or - N - for no.
 Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SQ=Soil, SF=Sediment, ST=Sludge, WQ=Water Quality Control Matrix
 Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards
 FL = Flammable/Ignitable
 LW = Listed Waste (F, K, P and U-listed wastes.)
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Hg = Mercury
 Se = Selenium
 Ag = Silver
 MR = Misc. RCRA metals
 Pb = Lead
 Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, tritium, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns: (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
 Cooler 1-4
 Cooler 2-4
 Cooler 3-1
 Cooler 4-1
 Cooler 5-3

Page: 2 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (C): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

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

Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*

GEL Work Order Number: Phone # 404-506-7116
 Fax # _____

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

Sample ID <i>* For composites - indicate start and stop date/time</i>	Date Collected (mm/dd/yyyy)	*Time Collected (Military) (hh:mm)	QC Code (S)	Field Filtered (S)	Sample Matrix (S)	Total number of containers		Should this sample be considered: (Yes, please supply isotopic info.)	Total number of containers	Comments
						Metals * BPA 6020, 6010, 7470	SM 4500			
BRA- <i>BR6WC-52E</i>	<i>08/24/23</i>	<i>1305</i>	<i>G</i>	<i>N</i>	<i>WG</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BRA- <i>BR6WC-47</i>	<i>08/24/23</i>	<i>1445</i>	<i>G</i>	<i>N</i>	<i>WG</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BRA- <i>BR6WC-25J</i>	<i>08/24/23</i>	<i>1647</i>	<i>G</i>	<i>N</i>	<i>WG</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	<i>8/24/23</i>	<i>[Signature]</i>	<i>8/24/23</i>	<i>1730</i>
<i>[Signature]</i>	<i>8/25/23</i>	<i>[Signature]</i>	<i>8/25/23</i>	<i>0857</i>

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

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

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

Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WTW=Water, WL=Leachate, SO=Soil, SE=Soil, SI=Sludge, WQ=Water Quality Control Matrix

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

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

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

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

Chain of Custody Number = Clear Determined

1.) Chain of Custody Number = Clear Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WTW=Water, WL=Leachate, SO=Soil, SE=Soil, SI=Sludge, WQ=Water Quality Control Matrix

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s):	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

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

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

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

Handwritten notes: Cooler 1-4
Cooler 2-4
Cooler 3-1
Cooler 4-1
Cooler 5-3

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

ET

634784
634789
634768
634781

SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPCCL</u>			SDG/AR/COC/Work Order:		
Received By: <u>EG</u>			Date Received: <u>8/25/23 0857</u>		
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other <u>cooler 1-4° cooler 3-1° cooler 5-3°</u> <u>cooler 2-4° cooler 4-1°</u>		
Suspected Hazard Information			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria			Comments/Qualifiers (Required for Non-Conforming Items)		
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See above</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See below</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8	Samples received within holding time?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and containers affected: <u>COC says BRA-P2-74I bottles say BRA-P2-74</u>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>containers BRA-P2-751, BRA-BRGWC-271, BRA-P2-53D, & BRA-BRGWC-291 preserved with NaOH/Zinc Acetate did not hold preservation</u>					

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

634444 634446

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *J. Perrin* ACC
 Send Results To: SCS & Geosyntec Contacts
 *For composites - indicate start and stop date/time



GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments	
						Yes, please supply isotopic info.	(7) Known or possible hazards	Total number of containers	Metals *	EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500		Preservative Type (6)
BRA-P2-57J	08/21/23	1755	G	N	WG			1						
BRA-P2-65I	08/21/23	1745	G	N	WG			1						
BRA-BR6WA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓			
BRA-BR6WC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓			
BRA-BR6WC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓			
BRA-P2-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓			
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓			
BRA-														
BRA-														
BRA-														

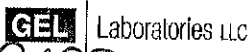
Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/23/23	0812	<i>[Signature]</i>	8/23/23	8:35
<i>[Signature]</i>	8/23/23	100	<i>[Signature]</i>	8/23/23	1300

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

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD-Drinking Water, WG-Groundwater, WS-Surface Water, WW-Waste Water, WL-Leachate, SO-Soil, SE-Sediment, SL-Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste (F,K,P and U-listed wastes), RE = Reactive
 Listed Waste: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 TSCA Regulated: PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 Pb = Lead
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446



SAMPLE RECEIPT & REVIEW FORM

Client: <u>CDD</u>		SDG/AR/COC/Work Order: _____			
Received By: <u>MVH</u>		Date Received: <u>8/23/2023</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Service <u>Courier</u> Other			
		<u>COOLR2-3^c</u> <u>COOLR4-1^c</u> <u>COOLR6-1^c</u> <u>COOLR1-2^c</u> <u>COOLR3-1^c</u> <u>COOLR5-2^c</u>			
Suspected Hazard Information		Yes	No		
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCBs Plammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample IDs and containers affected: <u>VOA-P2-G11, BRA-BREW-A-51, BRA-BREW-A-23S,</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S,</u> <u>BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S,</u> <u>BRA-BREW-C-34S, BRA-BREW-C-30I Sulfide</u> <u>Samples didnt hold proper preservation.</u>					

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

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [[gel.com](http://www.gel.com)]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 06, 2023

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

Re: Branch CCR Groundwater Compliance PZ-79
Work Order: 634448

Dear Joju Abraham:

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

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Please see attached email regarding a change to the sample ID. The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634448001	BRA-PZ-79	Ground Water	22/08/23 11:25	23/08/23 13:00

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

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023



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

Sincerely,

A handwritten signature in black ink that reads "Erin J. Trent". The signature is written in a cursive style with a large, stylized "E" and "T".

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634448 GEL Work Order: 634448

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ-79

Client Sample ID: BRA-PZ-79 Project: GPCC00101
Sample ID: 634448001 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 11:25
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.73	0.0670	0.200	mg/L		1	JLD1	08/23/23	2134	2481584	1
Fluoride		2.21	0.0330	0.100	mg/L		1					
Nitrate-N		0.140	0.0330	0.100	mg/L		1					
Sulfate		817	13.3	40.0	mg/L		100	JLD1	08/24/23	1222	2481584	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		2.63	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	2351	2482703	3
Magnesium		13.3	0.0100	0.0300	mg/L	1.00	1					
Selenium		0.0681	0.00150	0.00500	mg/L	1.00	1					
Boron		1.98	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0932	2482703	4
Calcium		264	1.60	4.00	mg/L	1.00	20					
Potassium		50.7	1.60	6.00	mg/L	1.00	20					
Sodium		63.9	1.60	5.00	mg/L	1.00	20					
Manganese		0.274	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0930	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1320	4.76	20.0	mg/L			CH6	08/28/23	1403	2482658	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.8	0.725	2.00	mg/L			JW2	08/29/23	1151	2484392	8
Bicarbonate alkalinity (CaCO3)		65.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ-79

Client Sample ID: BRA-PZ-79
Sample ID: 634448001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	EPA 300.0										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SW846 3005A/6020B										
6	SM 2540C										
7	SM 4500-S (2-) D										
8	SM 2320B										

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 6, 2023

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

Contact: Joju Abraham

Workorder: 634448

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
QC1205497354	634441001	DUP									
Chloride		32.7		32.5	mg/L	0.522	^	(+/-10.0)	JLD1	08/24/23	01:49
Fluoride		0.123		0.124	mg/L	1.13	^	(+/-0.100)		08/24/23	00:14
Nitrate-N	J	0.0707	J	0.0739	mg/L	4.43	^	(+/-0.100)			
Sulfate		466		474	mg/L	1.69		(0%-20%)		08/24/23	01:49
QC1205497353	LCS										
Chloride	5.00			4.64	mg/L			92.8 (90%-110%)		08/23/23	23:42
Fluoride	2.50			2.37	mg/L			94.6 (90%-110%)			
Nitrate-N	2.50			2.27	mg/L			91 (90%-110%)			
Sulfate	10.0			9.48	mg/L			94.8 (90%-110%)			
QC1205497352	MB										
Chloride			U	ND	mg/L					08/23/23	23:10
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497355	634441001	PS									
Chloride	5.00	0.654		5.10	mg/L			88.9* (90%-110%)		08/24/23	02:21

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QC Summary

Workorder: 634448

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
Fluoride	2.50	0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23	00:45
Nitrate-N	2.50	J 0.0707		2.29	mg/L		88.7*	(90%-110%)			
Sulfate	10.0	9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23	02:21
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165	LCS										
Boron	0.100			0.103	mg/L		103	(80%-120%)	PRB	08/31/23	22:21
Calcium	2.00			1.96	mg/L		98	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Potassium	2.00			1.94	mg/L		97	(80%-120%)		08/31/23	22:21
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
QC1205499164	MB										
Boron			U	ND	mg/L					08/31/23	22:18
Calcium			U	ND	mg/L						
Iron			U	ND	mg/L						

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QC Summary

Workorder: 634448

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Magnesium			U	ND	mg/L				PRB	08/31/23	22:18
Manganese			U	ND	mg/L					09/01/23	08:50
Potassium			U	ND	mg/L					08/31/23	22:18
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
QC1205499166 634441003 MS											
Boron	0.100	1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Calcium	2.00	83.4		88.8	mg/L		N/A	(75%-125%)			
Iron	2.00	U	ND	2.06	mg/L		102	(75%-125%)		08/31/23	22:36
Magnesium	2.00	18.9		21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500	3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00
Potassium	2.00	3.52		5.59	mg/L		104	(75%-125%)		08/31/23	22:36
Selenium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Sodium	2.00	20.7		23.1	mg/L		N/A	(75%-125%)			
QC1205499167 634441003 MSD											
Boron	0.100	1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Calcium	2.00	83.4		84.1	mg/L	5.45	N/A	(0%-20%)			

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QC Summary

Workorder: 634448

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)	PRB	08/31/23	22:39
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)		08/31/23	22:39
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
QC1205499168 634441003 SDILT											
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Calcium			4170	869	ug/L	4.2		(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Magnesium			18900	3500	ug/L	7.29		(0%-20%)			
Manganese			167	33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Potassium			3520	680	ug/L	3.4		(0%-20%)		08/31/23	22:46
Selenium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Sodium			20700	3830	ug/L	7.8		(0%-20%)			

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QC Summary

Workorder: 634448

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2482658										
QC1205499082	634606001	DUP									
Total Dissolved Solids		7330		7490	mg/L	2.16		(0%-5%)	CH6	08/28/23	14:03
QC1205499080	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23	14:03
QC1205499079	MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23	14:03
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)		08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54

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QC Summary

Workorder: 634448

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
Bicarbonate alkalinity (CaCO3)		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3		80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)		80.2		80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0	65.8		118	mg/L		104	(80%-120%)		08/29/23	11:54
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)		08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

GEL LABORATORIES LLC

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QC Summary

Workorder: 634448

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R											
Z											
d											
^											
N/A											
ND											
E											
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634448**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634448001	BRA-PZ-79
1205499164	Method Blank (MB)ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 634448001 (BRA-PZ-79) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	634448
	001
Boron	20X
Calcium	20X
Potassium	20X

Sodium	20X
--------	-----

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481584

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481584

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634448001	BRA-PZ-79
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS) and 634448001 (BRA-PZ-79) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634448
	001
Sulfate	100X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482658

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634448001	BRA-PZ-79
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499082	634606001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205499082 (Non SDG 634606001DUP) and 634448001 (BRA-PZ-79).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634448001	BRA-PZ-79
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634448001	BRA-PZ-79
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

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

Data Summary:

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

Certification Statement

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

634448 634443

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

GEL Laboratories LLC
 Chemistry / Radiochemistry / Radiobiology / Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

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

GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Send Results To: SCS & Geosyntec Contacts
 Collected By: J. Bristell ACC

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Yield, please supply isotopic info	(7) Known or possible hazards	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRA-PZ-79(in.)	08/22/23	1125	G	N	WG				Metals * EPA 6020 Sulfide SM 4500 IN		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-OTH-2023082Z
BRA-PZ-79			G		WG						initial sample
											stabilized sample

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[Signature]	8/22/23	0832	[Signature]	8/23/23	8:38
[Signature]	8/23/23	1:00	[Signature]	8/23/23	1:30

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Se, Fe, Mg, Mn, K, Na
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Mountain Other:

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

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

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

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCPP		SDG/AR/COC/Work Order:			
Received By: MVH		Date Received: 8/23/2023			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Service Courier Other COOLR2-3^c COOLR4-1^c COOLR6-1^c COOLR1-2^c COOLR3-1^c COOLR5-2^c			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
B) Did the client designate the samples to be received as radioactive?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples as hazardous?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: VOA-P2-G11, BRA-BREW-A-S1, BRA-BREW-A-23S,
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Preservation added, Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-34S, BRA-BREW-C-30I Sulfide samples didnt hold proper preservation.					

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

Erin Trent

From: Courtney Collins <CCollins@Geosyntec.com>
Sent: Tuesday, August 29, 2023 9:02 AM
To: Erin Trent; Team Trent
Cc: lbmidkif@southernco.com
Subject: FW: GEL Sample Receipt 634448 for Branch CCR Groundwater Compliance
Attachments: 634448coclr.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good morning Erin,

I have an additional sample ID change request for SDG 634448. Please revise it from BRA-PZ-79 (in.) to BRA-PZ-79. While there is another sample with the same ID provided in a separate SDG for this event, it was collected on a different date but it is from the same location.

Thank you,

Courtney Collins
Geosyntec Consultants, Inc.
Office: +1 678.718.4771
Mobile: +1 678.596.6738

From: GEL Data <data@gellaboratories.com>
Sent: Friday, August 25, 2023 2:52 PM
To: jabraham@southernco.com; betsy.mcdaniel@atlcc.net; Chris.parker@atlcc.net; monte.jones@atlcc.net; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Kendall Brome <Kendall.Brome@Geosyntec.com>; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com; Courtney Collins <CCollins@Geosyntec.com>
Subject: GEL Sample Receipt 634448 for Branch CCR Groundwater Compliance

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

GEL Laboratories, LLC received sample(s) on August 23, 2023. The final data is due to report on September 06, 2023. Please review the attached PDF. Should you find any discrepancies within the document, please call or email your project manager Erin Trent.

Do not reply to data@gellaboratories.com as this email address is not monitored. Please contact your project manager, Erin Trent, at Team.Trent@gel.com regarding this message or its attachments.

List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 07, 2023

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

Re: Branch CCR Groundwater Compliance PZ-79
Work Order: 634643

Dear Joju Abraham:

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

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

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634643001	BRA-PZ-79	Ground Water	23/08/23 10:10	24/08/23 13:00

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

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023

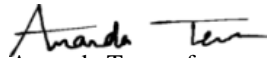
Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023



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

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending to the right from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634643 GEL Work Order: 634643

The Qualifiers in this report are defined as follows:

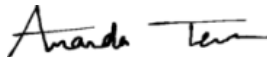
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ-79

Client Sample ID: BRA-PZ-79 Project: GPCC00101
Sample ID: 634643001 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 10:10
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		761	13.3	40.0	mg/L		100	LXA2	08/25/23	1507	2482641	1
Chloride		2.56	0.0670	0.200	mg/L		1	LXA2	08/24/23	1658	2482641	2
Fluoride		2.34	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0737	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.243	0.0330	0.100	mg/L	1.00	1	PRB	09/06/23	2210	2482705	3
Magnesium		12.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.256	0.00100	0.00500	mg/L	1.00	1					
Selenium		0.0760	0.00150	0.00500	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1025	2482705	4
Calcium		272	1.60	4.00	mg/L	1.00	20					
Potassium		59.4	1.60	6.00	mg/L	1.00	20					
Sodium		74.3	1.60	5.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1270	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1054	2482961	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		80.2	0.725	2.00	mg/L			JW2	08/29/23	1215	2484392	7
Bicarbonate alkalinity (CaCO3)		80.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ-79

Client Sample ID: BRA-PZ-79
Sample ID: 634643001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	EPA 300.0										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										
6	SM 4500-S (2-) D										
7	SM 2320B										

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 7, 2023

Page 1 of 7

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

Contact: Joju Abraham

Workorder: 634643

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
QC1205499056	634643001	DUP									
Chloride		2.56		2.56	mg/L	0.235		(0%-20%)	LXA2	08/24/23	23:40
Fluoride		2.34		2.35	mg/L	0.435		(0%-20%)			
Nitrate-N	J	0.0737	J	0.0724	mg/L	1.78	^	(+/-0.100)			
Sulfate		761		761	mg/L	0.0329		(0%-20%)		08/25/23	15:38
QC1205499055	LCS										
Chloride	5.00			4.61	mg/L		92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50			2.40	mg/L		96	(90%-110%)			
Nitrate-N	2.50			2.31	mg/L		92.4	(90%-110%)			
Sulfate	10.0			9.50	mg/L		95	(90%-110%)			
QC1205499054	MB										
Chloride			U	ND	mg/L					08/24/23	23:09
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499057	634643001	PS									
Chloride	5.00	2.56		7.48	mg/L		98.4	(90%-110%)		08/25/23	00:11

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QC Summary

Workorder: 634643

Page 2 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
Fluoride	2.50	2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23	00:11
Nitrate-N	2.50	J 0.0737		2.40	mg/L		92.9	(90%-110%)			
Sulfate	10.0	7.61		17.7	mg/L		101	(90%-110%)		08/25/23	16:09
Metals Analysis - ICPMS											
Batch	2482705										
QC1205499170	LCS										
Boron	0.100			0.111	mg/L		111	(80%-120%)	PRB	09/06/23	21:01
Calcium	2.00			2.11	mg/L		105	(80%-120%)		09/07/23	09:49
Iron	2.00			2.05	mg/L		102	(80%-120%)		09/06/23	21:01
Magnesium	2.00			2.09	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0478	mg/L		95.7	(80%-120%)			
Sodium	2.00			2.16	mg/L		108	(80%-120%)		09/07/23	09:49
QC1205499169	MB										
Boron			U	ND	mg/L					09/06/23	20:58
Calcium			U	ND	mg/L					09/07/23	09:47
Iron			U	ND	mg/L					09/06/23	20:58

GEL LABORATORIES LLC

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QC Summary

Workorder: 634643

Page 3 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Magnesium			U	ND	mg/L				PRB	09/06/23	20:58
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L					09/07/23	09:47
QC1205499171 634615001 MS											
Boron	0.100	0.0601		0.170	mg/L		110	(75%-125%)		09/06/23	21:09
Calcium	2.00	47.9		49.7	mg/L		N/A	(75%-125%)		09/07/23	10:00
Iron	2.00	J 0.0446		2.04	mg/L		99.9	(75%-125%)		09/06/23	21:09
Magnesium	2.00	24.7		27.2	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U ND		0.0498	mg/L		99	(75%-125%)			
Potassium	2.00	1.19		3.21	mg/L		101	(75%-125%)			
Selenium	0.0500	J 0.00214		0.0529	mg/L		102	(75%-125%)			
Sodium	2.00	24.3		26.5	mg/L		N/A	(75%-125%)		09/07/23	10:00
QC1205499172 634615001 MSD											
Boron	0.100	0.0601		0.169	mg/L	0.597	109	(0%-20%)		09/06/23	21:12
Calcium	2.00	47.9		47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23	10:02

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QC Summary

Workorder: 634643

Page 4 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Iron	2.00	J	0.0446	2.02	mg/L	0.88	99	(0%-20%)	PRB	09/06/23	21:12
Magnesium	2.00		24.7	26.1	mg/L	4.35	N/A	(0%-20%)			
Manganese	0.0500	U	ND	0.0491	mg/L	1.28	97.7	(0%-20%)			
Potassium	2.00		1.19	3.12	mg/L	2.62	96.9	(0%-20%)			
Selenium	0.0500	J	0.00214	0.0511	mg/L	3.51	97.9	(0%-20%)			
Sodium	2.00		24.3	25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23	10:02
QC1205499173 634615001 SDILT											
Boron			60.1	J	12.2	ug/L	1.49	(0%-20%)		09/06/23	21:20
Calcium			9580		1920	ug/L	.186	(0%-20%)		09/07/23	10:07
Iron		J	44.6	U	ND	ug/L	N/A	(0%-20%)		09/06/23	21:20
Magnesium			24700		5300	ug/L	7.32	(0%-20%)			
Manganese		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Potassium			1190	J	231	ug/L	2.54	(0%-20%)			
Selenium		J	2.14	U	ND	ug/L	N/A	(0%-20%)			
Sodium			4860		988	ug/L	1.66	(0%-20%)		09/07/23	10:07

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QC Summary

Workorder: 634643

Page 5 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2484234										
QC1205502076	634643001	DUP									
Total Dissolved Solids		1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03
Spectrometric Analysis											
Batch	2482961										
QC1205499656	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42
QC1205499655	MB										
Total Sulfide			U	ND	mg/L					08/25/23	10:42
QC1205499657	634513005	PS									
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48
QC1205499658	634513005	PSD									
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23	10:48
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)		65.8		65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)			U	ND	mg/L	N/A					
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3		80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16

GEL LABORATORIES LLC

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

QC Summary

Workorder: 634643

Page 6 of 7

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
Bicarbonate alkalinity (CaCO3)		80.2		80.4	mg/L	0.249		(0%-20%)	JW2	08/29/23	12:16
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0	65.8		118	mg/L		104	(80%-120%)		08/29/23	11:54
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)		08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

GEL LABORATORIES LLC

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

QC Summary

Workorder: 634643

Page 7 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

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

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634643**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482705

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482704

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634643001	BRA-PZ-79
1205499169	Method Blank (MB)ICP-MS
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 634643001 (BRA-PZ-79) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	634643
	001
Boron	20X
Calcium	20X
Potassium	20X

Sodium	20X
--------	-----

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482641

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634643001	BRA-PZ-79
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS) and 634643001 (BRA-PZ-79) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

	634643
Analyte	001
Sulfate	100X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484234

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634643001	BRA-PZ-79
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)

1205502076

634643001(BRA-PZ-79) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP) and 634643001 (BRA-PZ-79).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634643001	BRA-PZ-79
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634643001	BRA-PZ-79
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)

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

Data Summary:

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

Certification Statement

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

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

GEL Work Order Number: _____
 Phone # 404-506-7116
 Fax # _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Send Results To: SCS & Geosyntec Contacts

Collected By: ACC

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (3)	Sample Matrix (3)	Should this sample be considered:		Sample Analysis Requested (3) (Fill in the number of containers for each test)					Comments
						Yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	NI	← Preservative Type (6)			
BRA-PZ-79(in.)	08/23/23	1010	G	✓	WG			CL, F, SO4, TDS, NO3 EPA 300, SM 2540C					Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-OTH-20230822
BRA-PZ-79					WG			Total, Carb, & Bicarb Alk SM 2320B					initial sample
					WG			Metals * EPA 6020					stabilized sample

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
[Signature]	8/24/23	[Signature]	8/23/23	12:51
[Signature]	8/24/23	[Signature]	8/23/23	12:41

TAT Requested: Normal: Yes No Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

Additional Remarks: * Metals: B,Ca,Se,Fe,Mg,Mn,K,Na

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

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

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:	
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <u>cooler 1-3</u> <u>cooler 3-3</u> <u>cooler 2-3</u> <u>cooler 4-2</u> <u>cooler 5-3</u>	
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ deg. C)?*	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
			Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8	Samples received within holding time?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>cooler 6-1</u> <u>cooler 7-2</u> <u>cooler 8-4</u> <u>cooler 9-1</u>			

TEMP: See coolers above & below for temps

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



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

- BRA-P2-S11
- BRA-P2-591
- BRA-BRGWC-353
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-38S
- BRA-P2-641
- BRA-P2-68D
- BRA-APBCD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

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

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 06, 2023

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

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 634447

Dear Joju Abraham:

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

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. 634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

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

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023


Analysis Methods and Analysis Dates



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

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

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S Project: GPCC00101
Sample ID: 634447001 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:06
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-2S	Project: GPCC00101
Sample ID: 634447001	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S Project: GPCC00101
Sample ID: 634447002 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:05
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-5S Project: GPCC00101
Sample ID: 634447002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-51 Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:10
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-5I Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S Project: GPCC00101
Sample ID: 634447004 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:15
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-6S Project: GPCC00101
Sample ID: 634447004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO3)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-21 Project: GPCC00101
Sample ID: 634447005 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:12
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 6, 2023

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

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

Client Sample ID: BRA-BRGWA-2I	Project: GPCC00101
Sample ID: 634447005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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QC Summary

Report Date: September 6, 2023

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

Contact: Joju Abraham

Workorder: 634447

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
QC1205497371	634145003	DUP									
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23	15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L			95.6 (90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L			98.3 (90%-110%)			
Nitrate-N	2.50			2.36	mg/L			94.3 (90%-110%)			
Sulfate	10.0			9.76	mg/L			97.6 (90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497373	634145003	PS									
Chloride	5.00	3.15		8.45	mg/L			106 (90%-110%)		08/24/23	15:36

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165	LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23	22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium			U	ND	mg/L				PRB	08/31/23	22:18
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23	22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23	22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)	PRB	08/31/23	22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)			
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Calcium			4170	869	ug/L	4.2		(0%-20%)		09/01/23	09:04
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Cobalt			3.84	J	0.796	ug/L	3.56	(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23	22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24
QC1205499045	LCS										
Mercury		0.00200		0.00199	mg/L		99.5	(80%-120%)		08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002 MS										
Mercury		0.00200	U	ND	mg/L		99.5	(75%-125%)		08/25/23	12:26

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499048	634447002	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077	634352015	DUP									
Total Dissolved Solids	U	ND	U	ND	mg/L	N/A			CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Batch	2482658										
QC1205499081	634205010	DUP									
Total Dissolved Solids		400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23	14:03
QC1205499080	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23	14:03
QC1205499079	MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23	14:03
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3			65.8	65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)			65.8	65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3			80.2	80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)			80.2	80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339	LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344	LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341	634448001	MS									
Alkalinity, Total as CaCO3	50.0		65.8	118	mg/L		104	(80%-120%)		08/29/23	11:54

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
QC1205502343	634643001	MS									
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

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

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<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	---------------	-------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Technical Case Narrative
Georgia Power Company
SDG #: 634447**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482655

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482658

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

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

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

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

634447 634450

Page: _____ of _____
 Project # _____
 GEL Quote # _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - Upgradient
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: J. Braswell ACC
 Send Results To: SCS & Geosyntec Contacts
 Phone # 404-506-7116
 Fax # _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample Analysis Requested (5) (Fill in the number of containers for each test)
 Total number of containers: _____
 Should this sample be considered:
 (7) Known or possible Hazards
 Yes, please supply isotopic info. _____
 Radiactive (if applicable) _____
 EPA 300, SM 254C
 Total, Carb, & Biomb Air
 SM 232B
 Metals *
 EPA 6020, 6010, 7470
 Radium 226 & 228
 SW-846 9315, 9320
 Sulfide
 SM 4500
 Preservative Type (6)
 Comments
 Note: extra sample is required for sample specific QC
 Task Code: BRA-CCR-ASSMT-2023S2

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (6)	Field Filtered (7)	Sample Matrix (6)	Total number of containers	Should this sample be considered:	Preservative Type (6)	Comments
BRA-BRGWA-2S	08/22/23	1006	G	N	WG	8	Yes, please supply isotopic info. _____ Radiactive (if applicable) _____		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-BR6WA-5S	08/22/23	1005	G	N	WG	8	Yes, please supply isotopic info. _____ Radiactive (if applicable) _____		
BRA-BR6WA-5I	08/22/23	1010	G	N	WG	8	Yes, please supply isotopic info. _____ Radiactive (if applicable) _____		
BRA-BR6WA-6S	08/22/23	1015	G	N	WG	8	Yes, please supply isotopic info. _____ Radiactive (if applicable) _____		
BRA-BR6WA-2I	08/22/23	1012	G	N	WG	8	Yes, please supply isotopic info. _____ Radiactive (if applicable) _____		
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. _____ 8/23/23 6:32
 2. _____ 8/23/23 1:00
 3. _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____
 Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446

Client: EXPP
 Received By: MVH
 SDG/AR/COC/Work Order: ET
 Date Received: 08-23-2023
 Carrier and Tracking Number: COOLER 2-3°C COOLER 4-1°C COOLER 6-1°C
COOLER 1-2°C COOLER 3-1°C COOLERS 5-2°C

Suspected Hazard Information

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

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>MOA-P2-G11, BRA-BREWA-S1, BRA-BREWA-23S,</u>
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BREWA-2S, BRA-BREWA-6S,
BRA-BREWC-32S, BRA-BRAWA-2I, BRA-BREWC-37S,
BRA-67WC-34S, BRA-BREWC-30I Sulfide
 Samples didnt hold proper preservation.

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

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 26, 2023

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

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 634781,634446 and 634652

Dear Joju Abraham:

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

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

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
634446002	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634446003	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634446004	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634446005	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634446006	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634652001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634652002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634652003	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634652004	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634652005	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43
634652006	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634652007	BRA-APBCD-FB-02	Ground Water	23/08/23 14:50	24/08/23 12:43
634652008	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634652009	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634652010	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634652011	BRA-APBCD-EB-04	Ground Water	23/08/23 11:35	24/08/23 12:43



634652012	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634652013	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634781001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634781002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634781003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634781004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634781005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634781006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634781007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634781008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634781009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634781010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634781011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634781012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634781013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

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

Prep Methods and Prep Dates

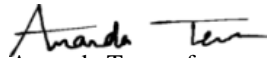
Not Applicable

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
Calculation	22-SEP-2023
Calculation	26-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 903.1 Modified	21-SEP-2023
EPA 903.1 Modified	26-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	19-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

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

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634652 GEL Work Order: 634652

The Qualifiers in this report are defined as follows:

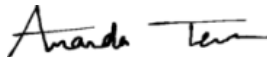
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634781 GEL Work Order: 634781

The Qualifiers in this report are defined as follows:

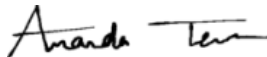
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634446 GEL Work Order: 634446

The Qualifiers in this report are defined as follows:

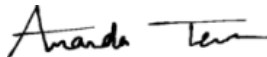
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634652**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2483038

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D

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

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2483035

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D

634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499785	Method Blank (MB)
1205499786	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499787	Laboratory Control Sample (LCS)

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

Data Summary:

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

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2483037

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499794	Method Blank (MB)
1205499795	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499796	634652001(BRA-PZ-51I) Matrix Spike (MS)
1205499797	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1205499796 (BRA-PZ-51IMS), aliquot was reduced to conserve sample volume.

Certification Statement

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

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634781**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2484347

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I

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

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2483519

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I

634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500580	Method Blank (MB)
1205500581	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500582	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

Method Blank Criteria

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

Sample	Analyte	Value
1205500580 (MB)	Radium-228	Result: 1.94 pCi/L > MDA: 1.46 pCi/L <= RDL: 3.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2483512

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500561	Method Blank (MB)

1205500562	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500563	634781003(BRA-BRGWC-27I) Matrix Spike (MS)
1205500564	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1205500563 (BRA-BRGWC-27IMS), aliquot was reduced to conserve sample volume.

Certification Statement

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

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634446**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2488604

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01

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

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2494433

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

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

Data Summary:

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

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria

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

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

Technical Information

Sample Re-prep/Re-analysis

Samples were re-prepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2482017

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

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

Certification Statement

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

634652

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

Project # _____ of _____
 GEL Quote #: _____
 COC Number (U): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *D. Berisford ACC*

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (b)	Field Filtered (a)	Sample Matrix (c)	Should this sample be considered: (?) Known or isotopic info. Yes, please supply	Sample Analysis Requested (5) (Fill in the number of containers for each test)						Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2		
							Total number of containers	Radioactive (if yes, please supply isotopic info.)	CL, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Biomb Air SM 230B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500	NI
BRA-PZ-51I	08/23/23	1500	G	N	WG		8								
BRA-PZ-58I	08/23/23	1510	G	N	WG		8								
BRA-PZ-59I	08/23/23	1140	G	N	WG		1								
BRA-PZ-60I	08/23/23	1325	G	N	WG		8								
BRA-PZ-63I	08/23/23	1630	G	N	WG		8								
BRA-PZ-64I	08/23/23	1055	G	N	WG		8								
BRA-PZ-68D	08/23/23	1608	G	N	WG		8								
BRA-APBCD-FB-02	08/23/23	1450	G	N	WG		8								
BRA-APBCD-FD-01	08/23/23	---	G	N	WG		8								
BRA-APBCD-FD-02	08/23/23	---	G	N	WG		8								

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	8:41:33 AM
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	8:24:23 AM

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

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

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

Sample Collection Time Zone: Eastern Pacific Mountain Other:

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

Characteristics Hazards	Listed Waste	Other
FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
TSCA Regulated PCB = Polychlorinated biphenyls		

RCRA Metals

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

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

GEL Work Order Number: _____
 Client Name: GA Power
 Phone # 404-506-7116
 Fax # _____

Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Send Results To: SCS & Geosyntec Contacts
 Collected By: *J. Burt* ACC

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (2)	Sample Matrix (4)	Total number of containers	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRA-BR6WC-50	08/23/23	1100	G	N	WG	8	Yes, please supply isotopic info.) (7) Known or possible Hazards	NI Radium 226 & 228 SW-46 9315, 9320 Sulfide SM 4500	<-	Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-EB-04	08/23/23	1135	G	N	WG	8		NI Metals * EPA 6020, 6010, 7470		
BRA-P2-44	08/23/23	1640	G	N	WG	8		NI Total, Carb, & Biocarb Alk SM 2320B		
BRA-P2-50D	08/23/23	1230	G	N	WG	8		NI Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C		
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	0841	<i>[Signature]</i>	8/24/23	841
<i>[Signature]</i>	8/24/23	1249	<i>[Signature]</i>	8/24/23	1243

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

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 Chain of Custody Number = Client Determined

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

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e., High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

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

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>6 PCC</u>		SDG/AR/COC/Work Order:			
Received By: <u>EG</u>		Date Received: <u>8.24.23</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-3 cooler 3-3 cooler 2-3 cooler 4-2 cooler 8, 3			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM</u> mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: <u>IRE 23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	/			Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?	/			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	/			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): cooler 6-1 cooler 7-2 cooler 8-4 cooler 9-1					

TEMP: See coolers above & below for temps

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



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

BRA-P2-S11

BRA-P2-591

BRA-BRGWC-353

BRA-BRGWC-365

BRA-APE-FB-07

BRA-P2-601

BRA-P2-581

BRA-P2-631

BRA-BRGWC-385

BRA-P2-641

BRA-P2-68D

BRA-AP BLD-FD-02

BRA-P2-50D

BRA-BRGWC-50

BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

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

634768 634781

Page: 1 of 2
 Project # _____
 GEL Quota #: _____
 COC Number (C): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military/24hr)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Total number of containers	Should this sample be considered:	Preservative Type (6)	Comments
BRA-APBCD-FD-03	08/24/23	0955	G	N	WG	8	Yes, please supply isotopic info. (7) Known or possible hazards	NI	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-EB-05	08/24/23	1225	G	N	WG	8		NI	
BRA-BRGWC-27I	08/24/23	1206	G	N	WG	8		NI	
BRA-BRGWC-45	08/24/23	1051	G	N	WG	8		NI	
BRA-P2-75I	08/24/23	1415	G	N	WB	8		NI	
BRA-BR6WC-29I	08/24/23	1520	G	N	WB	8		NI	
BRA-P2-51D	08/24/23	1100	G	N	WB	8		NI	
BRA-APBCD-FD-03	08/24/23	1255	G	N	WB	8		NI	
BRA-ARBCD-EB-06	08/24/23	1400	G	N	WB	8		NI	

Sample Analysis Requested (5) (Fill in the number of containers for each test)
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (signed) Date Time
 1. *[Signature]* 08/24/23 1730 1. *[Signature]* 08/24/23 1730
 2. *[Signature]* 08/25/23 0855 2. *[Signature]* 8/24/23 0857
 3. _____
 > For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, ED = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WWS=Water Water, WWT=Waste Water, WL=Leachate, SO=Soil, SF=Sludge, SI=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards: _____
 Listed Waste: _____
 FL = Flammable/Ignitable
 LW = Listed Waste (F, K, P and U-listed wastes)
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 Other: _____
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, add matrices, etc.)

cooler 1-4°
 cooler 2-4°
 cooler 3-1°
 cooler 4-1°
 cooler 5-3°

GEL Work Order Number: Phone # 404-506-7116

Client Name: GA Power

Project/Site Name: Plant Branch Ash Ponds - BCD

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: ACC

Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		Total number of containers	CI, P, SO4, TDS, NO3 BPA 300, SM 2540C	Total, Carb. & Biogas Air SM 2320B	Metals * BPA 602C, 6010, 7479 Radium 226 & 228 SW-846 9315, 9320 Solids SM 4500	Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
						Yes, please supply isotopic info)	(3) Known or possible hazards					
BRA- BR6WC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	
BRA- BR6WC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	
BRA- BR6WC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	
BRA-												
BRA-												
BRA-												
BRA-												
BRA-												
BRA-												

Chain of Custody Signatures

Reinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	9/6/23	1730
<i>[Signature]</i>	9/6/23	<i>[Signature]</i>	9/23/23	0857

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

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

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

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristics Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

COCK 1-4
COCK 2-4
COCK 3-1
COCK 4-1
COCK 5-3

ET

634784

634789

634768

634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPOC SDG/AR/COC/Work Order:

Received By: EG Date Received: 8/25/23 0857

Carrier and Tracking Number:
 Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other
 cooler 1-4° cooler 3-1° cooler 5-3°
 cooler 2-4° cooler 4-1°

Suspected Hazard Information:
 Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous?
 Hazard Class Shipped: UN#:
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive?
 COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive?
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous?
 COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards?
 If D or E is yes, select Hazards below.
 PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See above</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>See below</u> If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: <u>COC says BRA-P2-74I bottles say BRA-P2-74</u>
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
 containers BRA-P2-751, BRA-BRGWC-271, BRA-P2-53D, & BRA-BRGWC-291 preserved with NaOH/Zinc Acetate did not hold preservation

PM (or PMA) review: Initials AT Date 8/26/23 Page 1 of 1

034444 034440

Page: _____ of _____

Project # _____

GEL Quote #: _____

COC Number (0): _____

PO Number: _____

Client Name: GA Power

Project/Site Name: Plant Branch Ash Ponds - BCD

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Bernhardt ACC

Send Results To: SCS & Geosyntec Contacts

GEL Work Order Number: _____

Phone # 404-506-7116

Fax # _____

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (0)	Field Filtered (0)	Sample Matrix (0)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Preservative Type (6)					
						(7) Known or isotopic info. (if yes, please supply)	(7) possible hazards	CL, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Heavy Air SM 230B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500		Comments				
BRA-PZ-57I	08/21/23	1755	G	N	WG													
BRA-PZ-65I	08/21/23	1745	G	N	WG													
BRA-BRCWA-23S	08/22/23	1240	G	N	WG			8										
BRA-BR6WC-30I	08/22/23	1522	G	N	WG			8										
BRA-BR6WC-32S	08/22/23	1420	G	N	WG			8										
BRA-PZ-61I	08/22/23	1615	G	N	WG			8										
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8										
BRA-																		
BRA-																		
BRA-																		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/23/23	0842	<i>[Signature]</i>	8/23/23	0835
<i>[Signature]</i>	8/23/23	100	<i>[Signature]</i>	8/23/23	1300

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a • Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

Please provide any additional details below regarding handling and/or disposal concerns (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634443
 634448 634447
 634443 634450
 634441 634444
 634446

Client: ECOP SDG/AR/COC/Work Order: ET
 Received By: MVH Date Received: 8-23-2023
 Carrier and Tracking Number: COOPER-2-3^c COOPER-4-1^c COOPER-6-1^c COOPER-1-2^c COOPER-3-1^c COOPER-5-2^c

Suspected Hazard Information Yes No
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 A) Shipped as a DOT Hazardous? Yes No
 B) Did the client designate the samples are to be received as radioactive? Yes No
 C) Did the RSO classify the samples as radioactive? Yes No
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 00 CPM/AmR/hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous? Yes No
 E) Did the RSO identify possible hazards? Yes No
 If D or E is yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>MVA-P2-G11, BRA-BREW-A-51, BRA-BREW-A-235,</u> If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (if unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-34S, BRA-BREW-C-30I Sulfide
Samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

Office Main: 843.556.8171 | Fax: 843.766.1178

E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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List of current GEL Certifications as of 26 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634446002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.10	+/-1.08	1.79	+/-1.12	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.16	+/-1.15	1.79	+/-1.21		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.06	+/-0.386	0.385	+/-0.455	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	84.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-30I

Project: GPCC00101

Sample ID: 634446003

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.97	+/-1.28	2.00	+/-1.38	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.71	+/-1.32	2.00	+/-1.42		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.736	+/-0.333	0.380	+/-0.351	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-32S

Project: GPCC00101

Sample ID: 634446004

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.60	+/-1.14	1.80	+/-1.21	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.33	+/-1.19	1.80	+/-1.26		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.729	+/-0.346	0.390	+/-0.363	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-61I

Project: GPCC00101

Sample ID: 634446005

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.515	+/-0.660	1.12	+/-0.672	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.868	+/-0.703	1.12	+/-0.718		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.353	+/-0.244	0.325	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	85.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-01

Project: GPCC00101

Sample ID: 634446006

Client ID: GPCC001

Matrix: WQ

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.142	+/-0.978	1.81	+/-0.979	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.595	+/-1.01	1.81	+/-1.01		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.454	+/-0.236	0.217	+/-0.248	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	81.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-511
 Sample ID: 634652001
 Matrix: WG
 Collect Date: 23-AUG-23
 Receive Date: 24-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.20	+/-1.36	1.62	+/-1.73	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.22	+/-1.45	1.62	+/-1.81		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.02	+/-0.480	0.512	+/-0.520	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	82.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-58I

Project: GPCC00101

Sample ID: 634652002

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.77	+/-0.844	1.08	+/-0.956	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.71	+/-1.11	1.08	+/-1.27		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.95	+/-0.714	0.786	+/-0.834	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	81.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-60I

Project: GPCC00101

Sample ID: 634652003

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.65	+/-1.24	1.75	+/-1.41	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.48	+/-1.38	1.75	+/-1.58		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.83	+/-0.611	0.548	+/-0.717	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	76.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-63I

Project: GPCC00101

Sample ID: 634652004

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.44	+/-1.16	1.85	+/-1.21	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.31	+/-1.25	1.85	+/-1.32		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.873	+/-0.483	0.568	+/-0.510	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	75.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-64I

Project: GPCC00101

Sample ID: 634652005

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.700	+/-1.10	1.90	+/-1.11	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.877	+/-1.13	1.90	+/-1.15		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.177	+/-0.275	0.491	+/-0.278	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	77.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-68D

Project: GPCC00101

Sample ID: 634652006

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.837	+/-0.870	1.44	+/-0.896	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.62	+/-0.966	1.44	+/-1.00		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.786	+/-0.419	0.483	+/-0.447	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-02

Project: GPCC00101

Sample ID: 634652007

Client ID: GPCC001

Matrix: WQ

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.431	+/-0.731	1.30	+/-0.739	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.720	+/-0.801	1.30	+/-0.811		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.289	+/-0.327	0.532	+/-0.332	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	71.8	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-01

Project: GPCC00101

Sample ID: 634652008

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.29	+/-1.46	2.46	+/-1.50	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	2.39	+/-1.54	2.46	+/-1.59		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.09	+/-0.466	0.364	+/-0.509	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	72.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-02

Project: GPCC00101

Sample ID: 634652009

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.491	+/-1.14	2.01	+/-1.15	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.14	+/-1.22	2.01	+/-1.23		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.652	+/-0.429	0.555	+/-0.441	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	84.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-50

Project: GPCC00101

Sample ID: 634652010

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.285	+/-0.641	1.16	+/-0.645	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.55	+/-0.807	1.16	+/-0.861		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.26	+/-0.491	0.418	+/-0.571	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	83.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 634652011
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gas Flow Proportional Counting

GFPC Ra228, Liquid "As Received"

Radium-228	U	0.408	+/-0.833	1.49	+/-0.840	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
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Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum	U	1.22	+/-0.914	1.49	+/-0.938		pCi/L			LXB3	09/22/23	1000	2483038	2
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Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226		0.816	+/-0.375	0.312	+/-0.418	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3
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The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	73.1	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-44

Project: GPCC00101

Sample ID: 634652012

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.148	+/-0.949	1.84	+/-0.949	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.477	+/-1.04	1.84	+/-1.05		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.477	+/-0.429	0.653	+/-0.438	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	70.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-50D

Project: GPCC00101

Sample ID: 634652013

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.18	+/-0.822	1.26	+/-0.875	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.12	+/-0.914	1.26	+/-0.972		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.941	+/-0.401	0.313	+/-0.424	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	87	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-03
 Sample ID: 634781001
 Matrix: WG
 Collect Date: 24-AUG-23
 Receive Date: 25-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.38	+/-1.44	1.72	+/-1.82	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.92	+/-1.51	1.72	+/-1.88		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.542	+/-0.475	0.677	+/-0.482	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-05

Project: GPCC00101

Sample ID: 634781002

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.593	+/-0.685	1.15	+/-0.702	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.659	+/-0.732	1.15	+/-0.748		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0660	+/-0.259	0.574	+/-0.259	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	77.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-27I

Project: GPCC00101

Sample ID: 634781003

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.10	+/-1.05	1.72	+/-1.09	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.23	+/-1.17	1.72	+/-1.22		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.13	+/-0.529	0.419	+/-0.558	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	80.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-45

Project: GPCC00101

Sample ID: 634781004

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.541	+/-0.892	1.81	+/-0.893	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.607	+/-1.00	1.81	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.607	+/-0.459	0.567	+/-0.471	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-75I

Project: GPCC00101

Sample ID: 634781005

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.91	+/-1.02	1.48	+/-1.13	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.11	+/-1.15	1.48	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.20	+/-0.533	0.403	+/-0.589	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	85.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-74I

Project: GPCC00101

Sample ID: 634781006

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.191	+/-0.607	1.14	+/-0.609	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.811	+/-0.747	1.14	+/-0.760		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.620	+/-0.435	0.563	+/-0.454	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-29I

Project: GPCC00101

Sample ID: 634781007

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.89	+/-1.37	2.18	+/-1.45	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.02	+/-1.48	2.18	+/-1.58		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.12	+/-0.579	0.574	+/-0.624	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Address : Company
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-51D

Project: GPCC00101

Sample ID: 634781008

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.411	+/-0.709	1.25	+/-0.716	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.27	+/-0.851	1.25	+/-0.867		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.860	+/-0.471	0.373	+/-0.489	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-03

Project: GPCC00101

Sample ID: 634781009

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.61	+/-0.878	1.21	+/-0.968	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.93	+/-0.934	1.21	+/-1.02		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.321	+/-0.321	0.451	+/-0.330	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.4	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-06

Project: GPCC00101

Sample ID: 634781010

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.285	+/-0.704	1.30	+/-0.708	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.924	+/-0.853	1.30	+/-0.861		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.639	+/-0.482	0.617	+/-0.491	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Address : Company
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634781011
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.85	+/-1.31	1.43	+/-1.80	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		6.36	+/-1.46	1.43	+/-1.95		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.50	+/-0.652	0.531	+/-0.743	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-47

Project: GPCC00101

Sample ID: 634781012

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.56	+/-1.10	1.71	+/-1.17	3.00	pCi/L			JE1	09/19/23	1053	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.39	+/-1.20	1.71	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.834	+/-0.497	0.424	+/-0.514	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-25I

Project: GPCC00101

Sample ID: 634781013

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.634	+/-0.916	1.58	+/-0.930	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.21	+/-0.991	1.58	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.574	+/-0.379	0.354	+/-0.399	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634446

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2494433										
QC1205520856	634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/23	08:46
	Uncert:	+/-0.702		+/-0.838							
	TPU:	+/-0.702		+/-0.891							
QC1205520857	LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/23	08:46
	Uncert:			+/-4.33							
	TPU:			+/-19.9							
QC1205520855	MB										
Radium-228				1.38	pCi/L				JE1	09/22/23	08:46
	Uncert:			+/-0.802							
	TPU:			+/-0.875							
Rad Ra-226											
Batch	2482017										
QC1205498038	634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-0.249							
	TPU:	+/-0.337		+/-0.251							
QC1205498040	LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:			+/-2.02							
	TPU:			+/-5.55							
QC1205498037	MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/23	09:26
	Uncert:			+/-0.184							
	TPU:			+/-0.188							
QC1205498039	634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-7.23							
	TPU:	+/-0.337		+/-17.8							

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634446

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634781

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2483519								
QC1205500581	634781003 DUP								
Radium-228	U	1.10	U	0.506	pCi/L	0		N/A JE1	09/19/2310:51
	Uncert:	+/-1.05		+/-1.18					
	TPU:	+/-1.09		+/-1.18					
QC1205500582	LCS								
Radium-228	77.5			72.3	pCi/L		93.3 (75%-125%)	JE1	09/19/2310:51
	Uncert:			+/-4.27					
	TPU:			+/-18.9					
QC1205500580	MB								
Radium-228				1.94	pCi/L			JE1	09/19/2310:51
	Uncert:			+/-1.03					
	TPU:			+/-1.15					
Rad Ra-226									
Batch	2483512								
QC1205500562	634781003 DUP								
Radium-226		1.13		1.23	pCi/L	8.5	(0% - 100%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-0.578					
	TPU:	+/-0.558		+/-0.626					
QC1205500564	LCS								
Radium-226	26.9			25.2	pCi/L		93.6 (75%-125%)	LXP1	09/26/2309:21
	Uncert:			+/-2.49					
	TPU:			+/-4.93					
QC1205500561	MB								
Radium-226			U	0.162	pCi/L			LXP1	09/26/2308:46
	Uncert:			+/-0.229					
	TPU:			+/-0.231					
QC1205500563	634781003 MS								
Radium-226	125	1.13		110	pCi/L		87 (75%-125%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-11.2					
	TPU:	+/-0.558		+/-25.2					

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634781

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634652

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2483035								
QC1205499786	634652001 DUP								
Radium-228		4.20	1.85	pCi/L	77.8		(0% - 100%)	JE1	09/19/2309:26
		Uncert: +/-1.36	+/-0.855						
		TPU: +/-1.73	+/-0.975						
QC1205499787	LCS								
Radium-228	77.6		66.2	pCi/L		85.4	(75%-125%)	JE1	09/19/2309:26
		Uncert:	+/-4.00						
		TPU:	+/-17.3						
QC1205499785	MB								
Radium-228		U	0.216	pCi/L				JE1	09/19/2309:26
		Uncert:	+/-0.891						
		TPU:	+/-0.893						
Rad Ra-226									
Batch	2483037								
QC1205499795	634652001 DUP								
Radium-226		1.02	1.69	pCi/L	49.7		(0% - 100%)	LXP1	09/21/2310:10
		Uncert: +/-0.480	+/-0.621						
		TPU: +/-0.520	+/-0.674						
QC1205499797	LCS								
Radium-226	27.1		28.6	pCi/L		105	(75%-125%)	LXP1	09/21/2310:42
		Uncert:	+/-2.15						
		TPU:	+/-5.29						
QC1205499794	MB								
Radium-226		U	0.0898	pCi/L				LXP1	09/21/2310:10
		Uncert:	+/-0.278						
		TPU:	+/-0.279						
QC1205499796	634652001 MS								
Radium-226	130	1.02	139	pCi/L		106	(75%-125%)	LXP1	09/21/2310:10
		Uncert: +/-0.480	+/-11.3						
		TPU: +/-0.520	+/-34.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634652

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



September 06, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2023. 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

Rev. 1 - This replaces the September 5, 2023 final report. This report was revised to update the incorrect sample ID's for 92684547-007 thru -017. No other changes were made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Laura Midkiff, Georgia Power
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

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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SAMPLE SUMMARY

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92684547001	BRA-LR-1(surface)	Water	08/23/23 11:00	08/24/23 14:44
92684547002	BRA-LR-1(mid)	Water	08/23/23 11:03	08/24/23 14:44
92684547003	BRA-LR-1(bottom)	Water	08/23/23 11:06	08/24/23 14:44
92684547004	BRA-LS+3A(surface)	Water	08/23/23 10:54	08/24/23 14:44
92684547005	BRA-LS+3(surface)	Water	08/23/23 10:48	08/24/23 14:44
92684547006	BRA-LS+3(mid)	Water	08/23/23 10:52	08/24/23 14:44
92684547007	BRA-LR+8A(surface)	Water	08/23/23 11:36	08/24/23 14:44
92684547008	BRA-LR+9A(surface)	Water	08/23/23 11:40	08/24/23 14:44
92684547009	BRA-LR+8(surface)	Water	08/23/23 10:35	08/24/23 14:44
92684547010	BRA-LR+8(mid)	Water	08/23/23 10:38	08/24/23 14:44
92684547011	BRA-LR+8(bottom)	Water	08/23/23 10:41	08/24/23 14:44
92684547012	BRA-LR+9(surface)	Water	08/23/23 10:29	08/24/23 14:44
92684547013	BRA-LR+9(mid)	Water	08/23/23 10:32	08/24/23 14:44
92684547014	BRA-LR+9(bottom)	Water	08/23/23 10:35	08/24/23 14:44
92684547015	BRA-LR+10(surface)	Water	08/23/23 10:11	08/24/23 14:44
92684547016	BRA-LR+10(mid)	Water	08/23/23 10:14	08/24/23 14:44
92684547017	BRA-LR+10(bottom)	Water	08/23/23 10:19	08/24/23 14:44

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92684547001	BRA-LR-1(surface)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547002	BRA-LR-1(mid)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547003	BRA-LR-1(bottom)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547004	BRA-LS+3A(surface)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547005	BRA-LS+3(surface)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547006	BRA-LS+3(mid)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547007	BRA-LR+8A(surface)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547008	BRA-LR+9A(surface)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92684547009	BRA-LR+8(surface)	SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
92684547010	BRA-LR+8(mid)	EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
92684547011	BRA-LR+8(bottom)	EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
92684547012	BRA-LR+9(surface)	SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547013	BRA-LR+9(mid)	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
92684547014	BRA-LR+9(bottom)	SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
92684547015	BRA-LR+10(surface)	EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92684547016	BRA-LR+10(mid)	EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
92684547017	BRA-LR+10(bottom)	EPA 9056A	CDC	3	PASI-A
		EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	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 Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR-1(surface)	Lab ID: 92684547001	Collected: 08/23/23 11:00	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 01:57	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 01:57	7440-09-7	
Sodium	5.3	mg/L	1.0	1	08/29/23 14:47	08/30/23 01:57	7440-23-5	
Calcium	5.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 01:57	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	08/29/23 14:47	08/30/23 01:57	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	08/28/23 13:48	08/31/23 18:14	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:14	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	34.4	mg/L	5.0	1		08/25/23 13:04		
Alkalinity, Total as CaCO3	34.4	mg/L	5.0	1		08/25/23 13:04		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.6	mg/L	1.0	1		08/25/23 13:47	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 13:47	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/25/23 13:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR-1(mid)	Lab ID: 92684547002	Collected: 08/23/23 11:03	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:02	7440-42-8	
Potassium	2.6	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:02	7440-09-7	
Sodium	5.3	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:02	7440-23-5	
Calcium	5.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:02	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:02	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	08/28/23 13:48	08/31/23 18:20	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:20	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	53.0	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.9	mg/L	5.0	1		08/25/23 13:22		
Alkalinity, Total as CaCO3	33.9	mg/L	5.0	1		08/25/23 13:22		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.6	mg/L	1.0	1		08/25/23 21:52	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 21:52	16984-48-8	
Sulfate	1.7	mg/L	1.0	1		08/25/23 21:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR-1(bottom)	Lab ID: 92684547003	Collected: 08/23/23 11:06	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:07	7440-42-8	
Potassium	2.6	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:07	7440-09-7	
Sodium	5.3	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:07	7440-23-5	M1
Calcium	5.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:07	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:07	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	08/28/23 13:48	08/31/23 18:26	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:26	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	62.0	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.8	mg/L	5.0	1		08/25/23 13:29		
Alkalinity, Total as CaCO3	33.8	mg/L	5.0	1		08/25/23 13:29		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	1		08/25/23 22:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:07	16984-48-8	
Sulfate	1.7	mg/L	1.0	1		08/25/23 22:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LS+3A(surface)	Lab ID: 92684547004	Collected: 08/23/23 10:54	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:38	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:38	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:38	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:38	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:38	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:50	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	53.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.3	mg/L	5.0	1		08/25/23 13:35		
Alkalinity, Total as CaCO3	33.3	mg/L	5.0	1		08/25/23 13:35		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/25/23 22:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:23	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		08/25/23 22:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LS+3(surface)	Lab ID: 92684547005	Collected: 08/23/23 10:48	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:44	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:44	7440-09-7	
Sodium	5.2	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:44	7440-23-5	
Calcium	5.8	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:44	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:44	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:56	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	46.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.3	mg/L	5.0	1		08/25/23 13:41		
Alkalinity, Total as CaCO3	33.3	mg/L	5.0	1		08/25/23 13:41		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.6	mg/L	1.0	1		08/25/23 22:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:38	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/25/23 22:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LS+3(mid)	Lab ID: 92684547006	Collected: 08/23/23 10:52	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:49	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:49	7440-09-7	
Sodium	5.3	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:49	7440-23-5	
Calcium	5.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:49	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:49	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:14	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	32.3	mg/L	5.0	1		08/25/23 13:57		
Alkalinity, Total as CaCO3	32.3	mg/L	5.0	1		08/25/23 13:57		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.6	mg/L	1.0	1		08/25/23 22:53	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:53	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/25/23 22:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+8A(surface)	Lab ID: 92684547007	Collected: 08/23/23 11:36	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:54	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:54	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:54	7440-23-5	
Calcium	5.4	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:54	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:54	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	08/28/23 13:48	08/31/23 19:20	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	53.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	1		08/25/23 14:03		
Alkalinity, Total as CaCO3	31.3	mg/L	5.0	1		08/25/23 14:03		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.7	mg/L	1.0	1		08/25/23 23:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 23:08	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/25/23 23:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+9A(surface)	Lab ID: 92684547008	Collected: 08/23/23 11:40	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 02:59	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:59	7440-09-7	
Sodium	4.8	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:59	7440-23-5	
Calcium	5.4	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:59	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:59	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	08/28/23 13:48	08/31/23 19:26	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	40.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.1	mg/L	5.0	1		08/25/23 14:09		
Alkalinity, Total as CaCO3	31.1	mg/L	5.0	1		08/25/23 14:09		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/25/23 23:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 23:23	16984-48-8	M1
Sulfate	2.3	mg/L	1.0	1		08/25/23 23:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+8(surface)	Lab ID: 92684547009	Collected: 08/23/23 10:35	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:04	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:04	7440-09-7	
Sodium	5.0	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:04	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:04	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:04	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	08/28/23 13:48	08/31/23 19:31	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	40.0	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.8	mg/L	5.0	1		08/25/23 14:15		
Alkalinity, Total as CaCO3	31.8	mg/L	5.0	1		08/25/23 14:15		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.6	mg/L	1.0	1		08/26/23 00:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 00:38	16984-48-8	
Sulfate	1.9	mg/L	1.0	1		08/26/23 00:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+8(mid)	Lab ID: 92684547010	Collected: 08/23/23 10:38	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:09	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:09	7440-09-7	
Sodium	5.0	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:09	7440-23-5	
Calcium	5.6	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:09	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:09	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	08/28/23 13:48	08/31/23 19:37	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	50.0	mg/L	25.0	1		08/28/23 18:46		D6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	32.3	mg/L	5.0	1		08/25/23 14:21		
Alkalinity, Total as CaCO3	32.3	mg/L	5.0	1		08/25/23 14:21		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.7	mg/L	1.0	1		08/26/23 00:53	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 00:53	16984-48-8	
Sulfate	2.0	mg/L	1.0	1		08/26/23 00:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+8(bottom)	Lab ID: 92684547011	Collected: 08/23/23 10:41	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:14	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:14	7440-09-7	
Sodium	5.1	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:14	7440-23-5	
Calcium	5.7	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:14	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:14	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	08/28/23 13:48	08/31/23 19:43	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	50.0	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	32.5	mg/L	5.0	1		08/25/23 14:27		
Alkalinity, Total as CaCO3	32.5	mg/L	5.0	1		08/25/23 14:27		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.7	mg/L	1.0	1		08/26/23 01:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:08	16984-48-8	
Sulfate	2.0	mg/L	1.0	1		08/26/23 01:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+9(surface)	Lab ID: 92684547012	Collected: 08/23/23 10:29	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:20	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:20	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:20	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:20	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:20	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	08/28/23 13:48	08/31/23 19:49	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	44.0	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.6	mg/L	5.0	1		08/25/23 14:45		
Alkalinity, Total as CaCO3	31.6	mg/L	5.0	1		08/25/23 14:45		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/26/23 01:24	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:24	16984-48-8	
Sulfate	2.1	mg/L	1.0	1		08/26/23 01:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+9(mid)	Lab ID: 92684547013	Collected: 08/23/23 10:32	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:25	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:25	7440-09-7	
Sodium	4.6	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:25	7440-23-5	
Calcium	5.2	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:25	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:25	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	08/28/23 13:48	08/31/23 19:55	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	42.0	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	30.7	mg/L	5.0	1		08/25/23 14:52		
Alkalinity, Total as CaCO ₃	30.7	mg/L	5.0	1		08/25/23 14:52		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/26/23 01:41	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:41	16984-48-8	
Sulfate	2.1	mg/L	1.0	1		08/26/23 01:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+9(bottom)	Lab ID: 92684547014	Collected: 08/23/23 10:35	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:40	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:40	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:40	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:40	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:40	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	08/28/23 13:48	08/31/23 20:01	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	52.0	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.0	mg/L	5.0	1		08/25/23 15:06		
Alkalinity, Total as CaCO3	31.0	mg/L	5.0	1		08/25/23 15:06		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/26/23 01:56	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:56	16984-48-8	
Sulfate	2.1	mg/L	1.0	1		08/26/23 01:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+10(surface)	Lab ID: 92684547015	Collected: 08/23/23 10:11	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:45	7440-42-8	
Potassium	2.7	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:45	7440-09-7	
Sodium	5.1	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:45	7440-23-5	
Calcium	5.7	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:45	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:45	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	08/28/23 13:48	08/31/23 20:07	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:07	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	36.0	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	30.2	mg/L	5.0	1		08/25/23 15:12		
Alkalinity, Total as CaCO3	30.2	mg/L	5.0	1		08/25/23 15:12		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	1		08/26/23 02:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:12	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/26/23 02:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+10(mid)	Lab ID: 92684547016	Collected: 08/23/23 10:14	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:51	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:51	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:51	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:51	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:51	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	08/28/23 13:48	08/31/23 20:25	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:25	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	46.0	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	30.0	mg/L	5.0	1		08/25/23 15:18		
Alkalinity, Total as CaCO3	30.0	mg/L	5.0	1		08/25/23 15:18		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	1		08/26/23 02:28	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:28	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		08/26/23 02:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Sample: BRA-LR+10(bottom)	Lab ID: 92684547017	Collected: 08/23/23 10:19	Received: 08/24/23 14:44	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	08/29/23 14:47	08/30/23 03:56	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:56	7440-09-7	
Sodium	4.9	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:56	7440-23-5	
Calcium	5.5	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:56	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:56	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	08/28/23 13:48	08/31/23 20:37	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:37	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	45.0	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	31.1	mg/L	5.0	1		08/25/23 15:23		
Alkalinity, Total as CaCO3	31.1	mg/L	5.0	1		08/25/23 15:23		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	3.8	mg/L	1.0	1		08/26/23 02:44	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:44	16984-48-8	
Sulfate	2.1	mg/L	1.0	1		08/26/23 02:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

QC Batch: 796578 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4127072 Matrix: Water
 Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/30/23 01:47	
Calcium	mg/L	ND	1.0	08/30/23 01:47	
Magnesium	mg/L	ND	0.050	08/30/23 01:47	
Potassium	mg/L	ND	0.50	08/30/23 01:47	
Sodium	mg/L	ND	1.0	08/30/23 01:47	

LABORATORY CONTROL SAMPLE: 4127073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	1	1.1	113	80-120	
Magnesium	mg/L	1	1.1	113	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4127074 4127075

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Boron	mg/L	1	ND	1	0.98	97	98	75-125	1	20	
Calcium	mg/L	1	5.9	1	6.8	88	88	75-125	0	20	
Magnesium	mg/L	1	3.0	1	4.0	95	96	75-125	0	20	
Potassium	mg/L	1	2.6	1	3.5	99	87	75-125	3	20	
Sodium	mg/L	1	5.3	1	6.1	79	69	75-125	2	20 M1	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

QC Batch:	796376	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

METHOD BLANK:	4126238	Matrix:	Water
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	08/31/23 18:02	
Selenium	mg/L	ND	0.0050	08/31/23 18:02	

LABORATORY CONTROL SAMPLE:	4126239					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4126240			4126241								
Parameter	Units	92684547003 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	0.10	0.10	101	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

QC Batch:	796395	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:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

METHOD BLANK:	4126358	Matrix:	Water
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/28/23 18:44	

LABORATORY CONTROL SAMPLE:	4126359					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	80-120	

SAMPLE DUPLICATE:	4126360					
Parameter	Units	92683381042 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE:	4126361					
Parameter	Units	92684547010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50.0	85.0	52	10	D6

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

QC Batch:	795999	Analysis Method:	SM 2320B-2011
QC Batch Method:	SM 2320B-2011	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

METHOD BLANK:	4124638	Matrix:	Water
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	08/25/23 12:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	08/25/23 12:46	

LABORATORY CONTROL SAMPLE:	4124639					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE:	4124640					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4124641			4124642								
Parameter	Units	92684547001 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	34.4	50	50	84.4	84.9	100	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4124643			4124644								
Parameter	Units	92684547011 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	32.5	50	50	81.9	81.4	99	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

QC Batch:	795900	Analysis Method:	EPA 9056A
QC Batch Method:	EPA 9056A	Analysis Description:	9056 IC anions 28 Days
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

METHOD BLANK:	4124196	Matrix:	Water
Associated Lab Samples:	92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/25/23 12:32	
Fluoride	mg/L	ND	0.10	08/25/23 12:32	
Sulfate	mg/L	ND	1.0	08/25/23 12:32	

LABORATORY CONTROL SAMPLE: 4124197						
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	2.5	99	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124200												4124201	
Parameter	Units	92684547008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
													Chloride
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	88	88	90-110	0	10	M1	
Sulfate	mg/L	2.3	50	50	50.3	50.1	96	96	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124625												4124626	
Parameter	Units	92684547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
													Chloride
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	90	90	90-110	1	10		
Sulfate	mg/L	2.2	50	50	49.8	49.7	95	95	90-110	0	10		

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QUALIFIERS

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92684547001	BRA-LR-1(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547002	BRA-LR-1(mid)	EPA 3010A	796578	EPA 6010D	796696
92684547003	BRA-LR-1(bottom)	EPA 3010A	796578	EPA 6010D	796696
92684547004	BRA-LS+3A(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547005	BRA-LS+3(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547006	BRA-LS+3(mid)	EPA 3010A	796578	EPA 6010D	796696
92684547007	BRA-LR+8A(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547008	BRA-LR+9A(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547009	BRA-LR+8(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547010	BRA-LR+8(mid)	EPA 3010A	796578	EPA 6010D	796696
92684547011	BRA-LR+8(bottom)	EPA 3010A	796578	EPA 6010D	796696
92684547012	BRA-LR+9(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547013	BRA-LR+9(mid)	EPA 3010A	796578	EPA 6010D	796696
92684547014	BRA-LR+9(bottom)	EPA 3010A	796578	EPA 6010D	796696
92684547015	BRA-LR+10(surface)	EPA 3010A	796578	EPA 6010D	796696
92684547016	BRA-LR+10(mid)	EPA 3010A	796578	EPA 6010D	796696
92684547017	BRA-LR+10(bottom)	EPA 3010A	796578	EPA 6010D	796696
92684547001	BRA-LR-1(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547002	BRA-LR-1(mid)	EPA 3005A	796376	EPA 6020B	796446
92684547003	BRA-LR-1(bottom)	EPA 3005A	796376	EPA 6020B	796446
92684547004	BRA-LS+3A(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547005	BRA-LS+3(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547006	BRA-LS+3(mid)	EPA 3005A	796376	EPA 6020B	796446
92684547007	BRA-LR+8A(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547008	BRA-LR+9A(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547009	BRA-LR+8(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547010	BRA-LR+8(mid)	EPA 3005A	796376	EPA 6020B	796446
92684547011	BRA-LR+8(bottom)	EPA 3005A	796376	EPA 6020B	796446
92684547012	BRA-LR+9(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547013	BRA-LR+9(mid)	EPA 3005A	796376	EPA 6020B	796446
92684547014	BRA-LR+9(bottom)	EPA 3005A	796376	EPA 6020B	796446
92684547015	BRA-LR+10(surface)	EPA 3005A	796376	EPA 6020B	796446
92684547016	BRA-LR+10(mid)	EPA 3005A	796376	EPA 6020B	796446
92684547017	BRA-LR+10(bottom)	EPA 3005A	796376	EPA 6020B	796446
92684547001	BRA-LR-1(surface)	SM 2540C-2015	796395		
92684547002	BRA-LR-1(mid)	SM 2540C-2015	796395		
92684547003	BRA-LR-1(bottom)	SM 2540C-2015	796395		
92684547004	BRA-LS+3A(surface)	SM 2540C-2015	796395		
92684547005	BRA-LS+3(surface)	SM 2540C-2015	796395		
92684547006	BRA-LS+3(mid)	SM 2540C-2015	796395		
92684547007	BRA-LR+8A(surface)	SM 2540C-2015	796395		
92684547008	BRA-LR+9A(surface)	SM 2540C-2015	796395		
92684547009	BRA-LR+8(surface)	SM 2540C-2015	796395		
92684547010	BRA-LR+8(mid)	SM 2540C-2015	796395		
92684547011	BRA-LR+8(bottom)	SM 2540C-2015	796395		
92684547012	BRA-LR+9(surface)	SM 2540C-2015	796395		
92684547013	BRA-LR+9(mid)	SM 2540C-2015	796395		
92684547014	BRA-LR+9(bottom)	SM 2540C-2015	796395		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond-Revised Report

Pace Project No.: 92684547

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92684547015	BRA-LR+10(surface)	SM 2540C-2015	796395		
92684547016	BRA-LR+10(mid)	SM 2540C-2015	796395		
92684547017	BRA-LR+10(bottom)	SM 2540C-2015	796395		
92684547001	BRA-LR-1(surface)	SM 2320B-2011	795999		
92684547002	BRA-LR-1(mid)	SM 2320B-2011	795999		
92684547003	BRA-LR-1(bottom)	SM 2320B-2011	795999		
92684547004	BRA-LS+3A(surface)	SM 2320B-2011	795999		
92684547005	BRA-LS+3(surface)	SM 2320B-2011	795999		
92684547006	BRA-LS+3(mid)	SM 2320B-2011	795999		
92684547007	BRA-LR+8A(surface)	SM 2320B-2011	795999		
92684547008	BRA-LR+9A(surface)	SM 2320B-2011	795999		
92684547009	BRA-LR+8(surface)	SM 2320B-2011	795999		
92684547010	BRA-LR+8(mid)	SM 2320B-2011	795999		
92684547011	BRA-LR+8(bottom)	SM 2320B-2011	795999		
92684547012	BRA-LR+9(surface)	SM 2320B-2011	795999		
92684547013	BRA-LR+9(mid)	SM 2320B-2011	795999		
92684547014	BRA-LR+9(bottom)	SM 2320B-2011	795999		
92684547015	BRA-LR+10(surface)	SM 2320B-2011	795999		
92684547016	BRA-LR+10(mid)	SM 2320B-2011	795999		
92684547017	BRA-LR+10(bottom)	SM 2320B-2011	795999		
92684547001	BRA-LR-1(surface)	EPA 9056A	795900		
92684547002	BRA-LR-1(mid)	EPA 9056A	795900		
92684547003	BRA-LR-1(bottom)	EPA 9056A	795900		
92684547004	BRA-LS+3A(surface)	EPA 9056A	795900		
92684547005	BRA-LS+3(surface)	EPA 9056A	795900		
92684547006	BRA-LS+3(mid)	EPA 9056A	795900		
92684547007	BRA-LR+8A(surface)	EPA 9056A	795900		
92684547008	BRA-LR+9A(surface)	EPA 9056A	795900		
92684547009	BRA-LR+8(surface)	EPA 9056A	795900		
92684547010	BRA-LR+8(mid)	EPA 9056A	795900		
92684547011	BRA-LR+8(bottom)	EPA 9056A	795900		
92684547012	BRA-LR+9(surface)	EPA 9056A	795900		
92684547013	BRA-LR+9(mid)	EPA 9056A	795900		
92684547014	BRA-LR+9(bottom)	EPA 9056A	795900		
92684547015	BRA-LR+10(surface)	EPA 9056A	795900		
92684547016	BRA-LR+10(mid)	EPA 9056A	795900		
92684547017	BRA-LR+10(bottom)	EPA 9056A	795900		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

WO# : 92684547
 Barcode: 92684547

Requested Due Date: 8/24/13
 Requested By: Day JAF
 Matrix: Drinking Water, Water, Waste Water, Product, Solid, Oil, Wipe, Air, Other, Tissue.
 CODE: DW, WT, WW, P, SL, OL, WP, AR, OT, TS.

ITEM #	SAMPLE ID (AZ, 0-9, -,) Sample IDs must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test					Residual Chlorine (Y/N)	SAMPLER NAME AND SIGNATURE	DATE SIGNED	TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
						START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total/Bicarb Alkalinity	Cl, F, SO4	TDS	App. III Metals - B, Ca								Metals - Mg, Na, K	App. IV Metals - Co only	App. IV Metals - Co, Se only	App. IV Metals - Se only
1	BRA-LR-1 (surface)		WS G			7/25/13		1100					3	X																						
2	BRA-LR-1 (mid)		WS G					1103					3	X																						
3	BRA-LR-1 (bottom)		WS G					1106					3	X																						
4	BRA-L-S+3A (surface)		WS G					1054					3	X																						
5	BRA-L-S+3 (surface)		WS G					1048					3	X																						
6	BRA-L-S+3 (mid)		WS G					1052					3	X																						
7	BRA-LR+8A (surface)		WS G					1135					3	X																						
8	BRA-LR+9A (surface)		WS G					1140					3	X																						
9	BRA-LR+8 (surface)		WS G					1035					3	X																						
10	BRA-LR+8 (mid)		WS G					1038					3	X																						
11	BRA-LR+8 (bottom)		WS G					1041					3	X																						
12	BRA-LR+9 (surface)		WS G					1029					3	X																						

ADDITIONAL COMMENTS: App. IV - Co, Se. RELINQUISHED BY / AFFILIATION: Pace Labs. ACCEPTED BY / AFFILIATION: Pace Labs. DATE: 8/24/13. TIME: 1448.

SAMPLER NAME AND SIGNATURE: [Signature] DATE SIGNED: 8-24-13. TEMP IN C: [Blank]. Received on Ice (Y/N): [Blank]. Custody Sealed Cooler (Y/N): [Blank]. Samples Intact (Y/N): [Blank].

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:	ARCADIS - Atlanta	Report To:	Kelley Sharpe, Warren Johnson	Attention:	
Address:	2839 Pacas Ferry Rd Atlanta, GA 30339	Copy To:	Ben Hodges, Joju Abraham	Company Name:	
Email:	kelly.sharpe@arcadis.com	Purchase Order #	GPC11064869	Address:	
Phone:	(770)384-6584	Project Name	Plant Branch-CR Ash Pond Closure	Pace Project Manager:	maiya.parks@pacelabs.com
Requested Due Date:	5 Day	Project #		Pace Profile #:	12769

W0#: 92684547
PM: IIP Due Date: 09/01/23
CLIENT: GR-ArcadRL1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Total/Bicarb Alkalinity	Ci, F, SO4	TDS	App. III Metals - B, Ca	Metals - Mg, Na, K	App. IV Metals - Co only	App. IV Metals - Co, Se only	App. IV Metals - Se only	Residual Chlorine (Y/N)		
						START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other											Y/N	
43	BRA-LR+9 (mid)	Drinking Water	DW	WS G	G	8/19/18			3	X																			
14	BRA-LR+9 (bottom)	Drinking Water	DW	WS G	G	10/35			3	X																			
15	BRA-LR+10 (surface)	Drinking Water	DW	WS G	G	10/11			3	X																			
16	BRA-LR+10 (mid)	Drinking Water	DW	WS G	G	10/14			3	X																			
17	BRA-LR+10 (bottom)	Drinking Water	DW	WS G	G	10/19			3	X																			
18																													
19																													
20																													
21																													
22																													
23																													
24																													

ADDITIONAL COMMENTS
RELINQUISHED BY / AFFILIATION: Arcadis / *[Signature]*
DATE: 8/14/18
ACCEPTED BY / AFFILIATION: *[Signature]*
DATE: 8-24-18

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: *[Signature]*
SIGNATURE OF SAMPLER: *[Signature]*
DATE Signed: 8-24-18

TEMP in C	
Received on Ice (Y/N)	
Custody Sealed Cooler (Y/N)	
Samples Intact (Y/N)	



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: ARCADIS

Project #:

WO#: **92684547**

PM: IMP Due Date: 09/01/23
CLIENT: GA-ArcadAt1

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 824-23K

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: 22.8

Correction Factor: 0.0
Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 22.8

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Includes Date/Time/ID/Analysis Matrix: <u>WS</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92684547

PM: HP

Due Date: 09/01/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-ArcadAtI

**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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1			2																									
2			2																									
3			2																									
4			2																									
5			2																									
6			2																									
7			2																									
8			2																									
9			2																									
10			2																									
11			2																									
12			2																									

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.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92684547

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: MP

Due Date: 09/01/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-ArcadAtI

**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)	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)	
1			2																									
2			2																									
3			2																									
4			2																									
5			2																									
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.

Memorandum

Date: 8 February 2024
To: Courtney Collins
From: Ashley Wilson
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634447, 634615, 634441, 634650, 634444, 634768 and 634784 and Eurofins Work Orders 680-239481-1 and 680-242425-1**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of sixty-five groundwater samples including five equipment blanks, five field blanks and five field duplicate samples collected 21-24 August and 30 October – 1 November 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins Savannah, Savannah, GA, for the following analytical test:

- Total Sulfide by SM 4500 S2 F-2011

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-239481-1	BRA-BRGWA-2I
680-239481-2	BRA-BRGWA-5I
680-239481-3	BRA-BRGWA-6S
680-239481-4	BRA-BRGWC-50
680-239481-5	BRA-PZ-57I
680-239481-6	BRA-PZ-59I
680-239481-7	BRA-PZ-64I
680-239481-8	BRA-PZ-65I
680-239481-9	BRA-BRGWC-33S
680-239481-10	BRA-BRGWC-35S
680-239481-11	BRA-BRGWC-38S
680-239481-12	BRA-PZ-76I
680-239481-13	BRA-PZ-77I
680-242425-1	BRA-BRGWA-2S
680-242425-2	BRA-BRGWA-2I
680-242425-3	BRA-PZ-44
680-242425-4	BRA-PZ-64I
680-242425-5	BRA-PZ-66I
680-242425-6	BRA-PZ-59I
680-242425-7	BRA-PZ-58I
680-242425-8	BRA-BRGWA-6S

Laboratory IDs	Client IDs
680-242425-9	BRA-PZ-51I
680-242425-10	BRA-PZ-51D
680-242425-11	BRA-PZ-57I
680-242425-12	BRA-PZ-65I
680-242425-13	BRA-PZ-61I
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S

Laboratory IDs	Client IDs
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01

Laboratory IDs	Client IDs
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
634784001	BRA-PZ-53D

The samples were received at 5.1, 5.0, 4.0, 3.0, 2.5, 2.8, 2.0 and 1.0 degrees Celsius (°C), both within and outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634615, 634441, 634444, 634650, 634447 & 634784: The laboratory noted the containers for samples BRA-BRGWC-35S, BRA-BRGWC-36S, BRA-APE-FB-08, BRA-BRGWC-38S, BRA-APE-FD-05, BRA-GWC-34S, BRA-BRGWC-37S, BRA-PZ-13S, BRA-BRGWC-32S, BRA-BRGWC-30I, BRA-PZ-61I, BRA-BRGWA-23S, BRA-PZ-51I, BRA-PZ-60I, BRA-PZ-58I, BRA-PZ-63I, BRA-PZ-64I, BRA-PZ-68D, BRA-APBCD-FD-02, BRA-PZ-50D, BRA-BRGWC-50, BRA-PZ-59I, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWA-2I, BRA-BRAW-5I, BRA-PZI, BRA-BRGWC-27I, BRA-PZ-53D and BRA-BRGWC-29I were preserved with NaOH/Zinc, however, they did not hold preservation for sulfide. Samples were preserved upon receipt and placed on a 24-hour preservation hold.

634650: The second relinquishing time on the second page of the chain of custody (COC) did not match the relinquishing time on the first page.

634444 & 634447: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time was not documented in military time.

634784: The laboratory noted a discrepancy between the COC and container label for sample BRA-P2-74I, where the COC has “BRA-P2-74I,” but the bottles have “BRA-P2-74.”

The field pH data and field ferrous iron data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Field Blank
- ⊗ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 2482704, 2482706, 2483978, 2482702 and 2483978). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

One batch MS/MSD was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

Boron (0.00673 and 0.00844 mg/L) was detected at an estimated concentrations greater than the MDL and less than the RL in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-07, respectively. Therefore, the estimated boron concentrations in the associated samples were U qualified as not detected at the RL.

Barium (0.000729 and 0.00104 mg/L) and magnesium (0.0283 and 0.0112 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively. Therefore, the estimated concentrations of barium and magnesium in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Calcium (0.105 mg/L) and manganese (0.00124 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Therefore, the estimated concentrations of calcium and manganese in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Sodium (0.291, 0.37 and 0.185 mg/l) was detected in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively, at concentrations greater than the RL and detected in BRA-APBCD-FB-03 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of sodium in the associated samples were U qualified as not detected at or above the RL and the concentrations in samples BRA-APBCD-EB-04 and BRA-APBCD-EB-06 were J+ qualified as estimated with high bias.

Boron (0.0205 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentrations of boron in samples BRA-BRGWC-17S and BRA-PZ-52D were J+ qualified as estimated with high bias.

Barium (0.000714mg/L), calcium (0.085 mg/L) and magnesium (0.0147 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APE-FB-08. Therefore, the concentration of calcium in BRA-APE-EB-10 was J+ qualified as estimated with high bias and the estimated concentration of magnesium in BRA-APE-EB-10 was U qualified as not detected at or above the RL. Since barium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.282 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentration of sodium in sample BRA-APE-EB-10 was J+ qualified as estimated with high bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Sodium	0.104	J	0.250	U	3
BRA-APBCD-EB-06	Sodium	0.352	NA	0.352	J+	3
BRA-APBCD-EB-04	Sodium	0.359	NA	0.359	J+	3
BRA-APBCD-EB-04	Barium	0.00138	J	0.00400	U	3
BRA-APBCD-EB-04	Magnesium	0.0165	J	0.0300	U	3
BRA-APBCD-EB-04	Manganese	0.0014	J	0.00500	U	3
BRA-APBCD-EB-04	Calcium	0.143	J	0.200	U	3
BRA-APE-EB-10	Calcium	0.361	NA	0.361	J+	3
BRA-APE-EB-10	Sodium	0.289	NA	0.289	J+	3
BRA-APE-EB-10	Magnesium	0.0142	J	0.0300	U	3
BRA-BRGWC-17S	Boron	0.0601	NA	0.0601	J+	3
BRA-PZ-52D	Boron	0.0668	NA	0.0668	J+	3
BRA-BRGWC-37S	Boron	0.00802	J	0.015	U	3
BRA-PZ-13S	Boron	0.00855	J	0.015	U	3
BRA-BRGWA-2I	Boron	0.00649	J	0.0052	U	3
BRA-BRGWA-2S	Boron	0.00738	J	0.0052	U	3
BRA-BRGWA-5I	Boron	0.0073	J	0.0052	U	3
BRA-BRGWA-5S	Boron	0.00764	J	0.0052	U	3
BRA-BRGWA-6S	Boron	0.00611	J	0.0052	U	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Barium (0.000812 mg/L), calcium (0.115 mg/L), manganese (0.0014 mg/L) and magnesium (0.018 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in equipment blank BRA-APBCD-EB-04. Since the concentrations of these analytes in equipment blank BRA-APBCD-EB-04 were U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Since the concentration of potassium in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sodium (0.359 mg/L) was detected in equipment blank BRA-APBCD-EB-04 at a concentration greater than the RL. Therefore, the sodium concentrations in the associated samples greater than the equipment blank concentration and less than ten times the equipment blank concentration were J+ qualified as estimated with high bias.

Sodium (0.104 mg/L) was detected in equipment blank BRA-APBCD-EB-05 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Barium (0.000812 mg/L), calcium (0.115 mg/L) and magnesium (0.018 mg/L) were detected in equipment blank BRA-APBCD-EB-06 at estimated concentrations greater than the MDLs and less than the RLs. Since barium, calcium and magnesium were detected at concentrations greater than the RLs in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.352 mg/L) was detected in equipment blank BRA-APBCD-EB-06 at a concentration greater than the RL. Since the sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) and magnesium (0.0142 mg/L) were detected in equipment blank BRA-APE-EB-10 at estimated concentrations greater than the MDLs and less than the RLs. Since the magnesium concentration in equipment blank BRA-APE-EB-10 was U qualified due to field blank contamination, potassium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the magnesium data.

Calcium (0.361 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since calcium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.289 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to

equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2S	Sodium	3.09	NA	3.09	J+	3
BRA-BRGWA-5S	Sodium	3.48	NA	3.48	J+	3
BRA-BRGWA-6S	Sodium	2.11	NA	2.11	J+	3

mg/L- milligram per liter

NA-not applicable

1.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exceptions.

634650: Selenium was not detected in sample BRA-BRGWC-50 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634441: Lithium was detected in field duplicate BRA-APE-FD-04 at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-33S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634615: Beryllium was not detected in field duplicate BRA-APE-FD-05 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-35S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Iron was detected in sample BRA-BRGWC-35S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Four sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The percent difference (%D) results were within the method specified acceptance criteria.

One batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 2482660, 2482623, 2483665 and 2483667). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MSs were reported using samples BRA-BRGWA-5S and BRA-PZ-13S. The recovery results were within the laboratory specified acceptance criteria.

Two batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using sample BRA-BRGWA-5S and BRA-PZ-13S. The RPD results were within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

2.10 Serial Dilution

Two sample set specific serial dilutions were performed using samples BRA-BRGWA-5, BRA-PZ-13S and BRA-PZ-51I. The %D results were within the method specified acceptance criteria. Two batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Field Blank
- ⊗ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

The laboratory noted that samples BRA-BRGWC-36S and BRA-PZ-70I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analyses. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported for anions (batches 2482580, 2481584, 2482641, 2482649, 2481608, 2483105 and 2483150). Nine method blanks were reported for TDS (batches 2483702, 2484233, 2484234, 2482652, 2482655, 2484583, 2484591, 2484594 and 2482658). Six method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696, 2483133 795173 and 806681). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Five sample set specific MSs were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

634441: The recoveries of chloride and nitrate as N in the MS using sample BRA-BRGWC-33S were low and outside of laboratory specified acceptance criteria. Therefore, the estimated concentration for nitrate as N in sample BRA-BRGWC-33S was J qualified as estimated. Since the concentration for chloride in sample BRA-BRGWC-33S was greater than four times the spike amount, no qualifications were applied to the chloride data.

634615: The recovery of chloride in the MS using sample BRA-BRGWC-17S was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-17S was J+ qualified as estimated with high bias.

Seven sample set specific MS/MSDs were reported for sulfide, using samples BRA-BRGWA-5I, BRA-BRGWA-2I, BRA-BRGWC-35S, BRA-BRGWC-33S, BRA-BRGWA-2S, BRA-BRGWC-50 and BRA-BRGWC-45. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

680-242425-1: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWA-2I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWA-2I was UJ qualified as estimated below the MDL.

634615: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-35S were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-35S was UJ qualified as estimated below the MDL.

634650: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-50 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-50 was UJ qualified as estimated below the MDL.

634768: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-45 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-45 was UJ qualified as estimated below the MDL.

Batch MSs and MS/MSD pairs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	4
BRA-BRGWC-33S	Nitrate	0.0707	J	0.0707	J-	4
BRA-BRGWC-35S	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-50	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-45	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWA-2I	Total Sulfide	0.81	U	0.81	UJ	4

mg/L- milligram per liter

U-not detected at or above the MDL

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-53D. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for sulfide, using sample BRA-BRGWA-2S. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

Fluoride (0.388, 0.516, 0.233, 0.0478 and 0.34 mg/L) was detected in field blanks BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08, respectively. Therefore, for the associated samples the estimated fluoride concentrations were U qualified as not detected at the RL, the fluoride concentrations greater than the RL and less than the field blank concentrations were U qualified as not detected at the reported concentration and the fluoride concentrations of samples BRA-PZ-53D, BRA-BRGWC-17S, BRA-BRGWC-38S, BRA-PZ-52D, BRA-APE-FD-04, BRA-BRGWC-33S, BRA-APBCD-EB-06, BRA-BRGWC-25I, BRA-BRGWC-27I, BRA-BRGWC-47, BRA-PZ-51D, BRA-APBCD-FD-01, BRA-PZ-58I and BRA-PZ-60I were J+ qualified as estimated with high bias.

Chloride (0.206 mg/L) was detected in field blank BRA-APE-FB-07. Therefore, the concentration of chloride in sample BRA-BRGWA-2I was J+ qualified as estimated with high bias.

Nitrate (0.043 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the concentrations of nitrate in samples BRA-BRGWA-2S, BRA-BRGWA-5I, BRA-BRGWA-5S and BRA-BRGWC-37S were J+ qualified as estimated with high bias and the estimated concentrations in the associated samples were U qualified as not detected at or above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Chloride	1.9	NA	1.9	J+	3
BRA-BRGWA-6S	Fluoride	0.0787	J	0.100	U	3
BRA-BRGWA-2S	Nitrate	0.218	NA	0.218	J+	3
BRA-BRGWA-5I	Nitrate	0.266	NA	0.266	J+	3
BRA-BRGWA-5S	Nitrate	0.203	NA	0.203	J+	3
BRA-APE-FD-04	Nitrate	0.063	J	0.100	U	3
BRA-BRGWC-33S	Nitrate	0.0707	J	0.100	U	3
BRA-BRGWC-34S	Nitrate	0.0431	J	0.100	U	3
BRA-BRGWC-37S	Nitrate	0.294	NA	0.294	J+	3
BRA-PZ-13S	Nitrate	0.0695	J	0.100	U	3
BRA-APBCD-EB-05	Fluoride	0.0798	J	0.100	U	3
BRA-APBCD-EB-06	Fluoride	0.435	NA	0.435	J+	3
BRA-APBCD-FD-03	Fluoride	0.198	NA	0.198	J+	3
BRA-BRGWC-25I	Fluoride	0.250	NA	0.250	J+	3
BRA-BRGWC-27I	Fluoride	0.302	NA	0.302	J+	3
BRA-BRGWC-29I	Fluoride	0.0849	J	0.100	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Fluoride	0.185	NA	0.185	J+	3
BRA-BRGWC-47	Fluoride	0.243	NA	0.243	J+	3
BRA-BRGWC-52I	Fluoride	0.188	J	0.200	U	3
BRA-PZ-51D	Fluoride	0.395	NA	0.395	J+	3
BRA-PZ-74I	Fluoride	0.157	NA	0.157	J+	3
BRA-PZ-75I	Fluoride	0.14	NA	0.140	J+	3
BRA-BRGWA-23S	Fluoride	0.114	NA	0.114	J+	3
BRA-BRGWC-30I	Fluoride	0.116	NA	0.116	J+	3
BRA-BRGWC-32S	Fluoride	0.0477	J	0.100	U	3
BRA-PZ-61I	Fluoride	0.188	NA	0.188	J+	3
BRA-APBCD-EB-04	Fluoride	0.503	NA	0.503	J+	3
BRA-APBCD-FD-01	Fluoride	0.583	NA	0.583	J+	3
BRA-APBCD-FD-02	Fluoride	0.255	NA	0.255	J+	3
BRA-BRGWC-50	Fluoride	0.499	NA	0.499	J+	3
BRA-PZ-44	Fluoride	0.195	NA	0.195	J+	3
BRA-PZ-50D	Fluoride	0.193	NA	0.193	J+	3
BRA-PZ-51I	Fluoride	0.0744	J	0.100	U	3
BRA-PZ-58I	Fluoride	1.10	NA	1.10	J+	3
BRA-PZ-60I	Fluoride	1.32	NA	1.32	J+	3
BRA-PZ-63I	Fluoride	0.252	NA	0.252	J+	3
BRA-PZ-64I	Fluoride	0.135	NA	0.135	J+	3
BRA-PZ-68D	Fluoride	0.218	NA	0.218	J+	3
BRA-APE-EB-09	Fluoride	0.0531	J	0.100	U	3
BRA-APE-EB-10	Fluoride	0.302	NA	0.302	U	3
BRA-APE-FD-05	Fluoride	0.341	NA	0.341	U	3
BRA-BRGWC-17S	Fluoride	0.484	NA	0.484	J+	3
BRA-BRGWC-35S	Fluoride	0.347	NA	0.347	U	3
BRA-BRGWC-36S	Fluoride	0.301	NA	0.301	U	3
BRA-BRGWC-38S	Fluoride	0.748	NA	0.748	J+	3
BRA-PZ-52D	Fluoride	1.94	NA	1.94	J+	3
BRA-PZ-70I	Fluoride	0.229	NA	0.229	U	3
BRA-APE-FD-04	Fluoride	0.119	NA	0.119	J+	3
BRA-BRGWC-33S	Fluoride	0.123	NA	0.123	J+	3
BRA-BRGWC-34S	Fluoride	0.0816	J	0.200	U	3
BRA-BRGWC-37S	Fluoride	0.0445	J	0.100	U	3
BRA-PZ-53D	Fluoride	0.334	NA	0.334	J+	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

3.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Wet chemistry

parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Sulfate (0.329 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Therefore, the estimated sulfate concentration in the associated sample was U qualified as not detected at the RL and the sulfate concentrations in samples BRA-BRGWA-2S, BRA-BRGWA-5S and BRA-BRGWA-6S, were J+ qualified as estimated with high bias.

Chloride (0.581 mg/L) and nitrate (0.470 mg/L) were detected in BRA-APE-EB-10 at concentrations greater than the RLs. Therefore, for the associated samples the chloride and nitrate concentrations were qualified as following. The estimated concentrations were U qualified as not detected at the RLs. The concentrations greater than the RLs and less than the equipment blank concentrations were U qualified as not detected at the reported concentration and the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias.

Fluoride (0.0531 mg/L, 0.503 mg/L, 0.0798 mg/L and 0.302 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in BRA-APE-EB-09, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-10, respectively. Since the fluoride concentrations in these equipment blanks were U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Chloride (0.282 mg/L) and fluoride (0.435 mg/L) were detected in BRA-APBCD-EB-06. Since the chloride concentrations in the associated samples were qualified due to equipment blank BRA-APE-EB-10 and the fluoride concentrations in the associated samples were qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Nitrate	0.094	J	0.100	U	3
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	3
BRA-PZ-70I	Nitrate	0.175	NA	0.175	U	3
BRA-PZ-70I	Chloride	5.75	NA	5.75	J+	3
BRA-BRGWC-37S	Chloride	1.89	NA	1.89	J+	3
BRA-BRGWC-37S	Sulfate	0.355	J	0.400	U	3
BRA-PZ-13S	Chloride	2.73	NA	2.73	J+	3
BRA-APBCD-FD-03	Nitrate	0.0476	J	0.100	U	3
BRA-BRGWC-27I	Nitrate	0.0657	J	0.100	U	3
BRA-BRGWC-27I	Chloride	4.81	NA	4.81	J+	3
BRA-BRGWC-29I	Nitrate	0.297	NA	0.297	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-47	Nitrate	0.117	NA	0.117	U	3
BRA-BRGWC-47	Chloride	4.67	NA	4.67	J+	3
BRA-PZ-74I	Nitrate	0.0475	J	0.100	U	3
BRA-PZ-75I	Nitrate	0.794	NA	0.794	J+	3
BRA-BRGWA-23S	Chloride	2.41	NA	2.41	J+	3
BRA-BRGWA-23S	Nitrate	0.212	NA	0.212	U	3
BRA-BRGWC-30I	Chloride	3.35	NA	3.35	J+	3
BRA-BRGWC-32S	Chloride	4.30	NA	4.30	J+	3
BRA-BRGWC-32S	Nitrate	0.184	NA	0.184	U	3
BRA-BRGWA-2S	Sulfate	0.526	NA	0.526	J+	3
BRA-BRGWA-5S	Sulfate	0.540	NA	0.540	J+	3
BRA-BRGWA-6S	Sulfate	0.467	NA	0.467	J+	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

3.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exception.

634768: Nitrate was not detected in sample BRA-BRGWC-45 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-03, resulting in a noncalculable RPD between the results. Since the nitrate concentration for field duplicate BRA-APBCD-FD-03 was U qualified due to equipment blank contamination and based on professional and technical judgement, no additional qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: 24 January 2024
To: Courtney Collins
From: Ashley Wilson
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634448, 634643 and 634649**

SITE: Plant Branch CCR Groundwater Compliance Transect and Porewater Assessment

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of four groundwater samples collected 22-23 August 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives. If

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
634448001	BRA-PZ-79; 08/22/2023
634643001	BRA-PZ-79; 08/23/2023

Laboratory IDs	Client IDs
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I

The samples were received at 4.0, 3.0, 2.0 and 1.0 degrees Celsius (°C), both within and outside of the EPA Region 4 criteria of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634448: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time appears to not be documented in military time.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL, based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 2482702 and 2482704). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Three batch MS/MSDs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Equipment Blank

Equipment blanks were not reported with the sample set.

1.9 Field Duplicate

Field duplicates were not reported with the sample set.

1.10 Serial Dilution

Three batch serial dilutions were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

2.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.1.2 Analysis Anomaly

The laboratory noted that sample BRA-PZ-76I was manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis.

2.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride, sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for anions (batches 2481584 and 2482641). Nine method blanks were reported for TDS (batch 2482658 and 2484234). Four method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696 and 2483133). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

2.4 Matrix Spike

Two sample set specific MSs were reported for total alkalinity, using samples BRA-PZ-79 collected August 22, 2023, and collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

One sample set specific MS was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

Batch MSs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for total alkalinity, using sample BRA-PZ-79. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.7 Field Duplicate

Field duplicates were not reported with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: 13 February 2024
To: Lauren Fitzgerald
From: Kristoffer Henderson
CC: Matthew Richardson
Subject: **Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 634443, 634648, 634450, 634781, 634446, 634652 and 634789**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples, collected between 22-24 August 2023, as part of the Plant Branch CCR Groundwater Compliance sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I

Laboratory ID	Client ID
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D

No sample preservation issues were noted by the laboratory.

Sample collection times were not listed on the chain of custody (COC) for field duplicate samples, BRA-APE-FD-04, BRA-APE-FD-05, BRA-APBCD-FD-01, BRA-APBCD-FD-02 and BRA-APBCD-FD-03. Collection times were not documented in the laboratory reports.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ⊗ Field Blank
- ⊗ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-228 for the samples and total radium-226 was detected in the following samples greater than the MDC. In addition, since the total radium concentrations were less than the MDC for radium-228 the laboratory U flagged these concentrations as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample
BRA-APE-FB-07
BRA-BRGWC-34S
BRA-BRGWC-37S
BRA-PZ-13S-WG

Sample
BRA-APBCD-EB-04
BRA-APBCD-FD-01
BRA-APBCD-FD-02
BRA-APBCD-FB-01

Sample
BRA-PZ-61I
BRA-APBCD-EB-06
BRA-BRGWC-25I
BRA-BRGWC-45

Sample
BRA-PZ-74I
BRA-BRGWA-2I

Sample
BRA-BRGWA-2S
BRA-PZ-52D

Sample
BRA-APE-FB-08

Total radium was reported at the MDC for radium-228 for the samples and total radium-226 and total radium-228 were not detected in sample BRA-APE-FB-08 greater than the MDC. In addition, since the total radium concentration was greater than the MDC for radium-228 the sample result was not U flagged as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 and radium-228 were less than the MDC, and based on professional and technical judgment, the total radium concentration for sample BRA-APE-FB-08 was U qualified as less than the MDC.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier (pCi/L)	Reason Code
BRA-APE-FB-07	Total Radium	0.546	U	0.546	NA	13
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	NA	13
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	NA	13
BRA-PZ-13S-WG	Total Radium	0.823	U	0.823	NA	13
BRA-APBCD-EB-04	Total Radium	1.22	U	1.22	NA	13
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	NA	13
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	NA	13
BRA-APBCD-FB-01	Total Radium	0.595	U	0.595	NA	13
BRA-PZ-61I	Total Radium	0.868	U	0.868	NA	13
BRA-APBCD-EB-06	Total Radium	0.924	U	0.924	NA	13
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	NA	13
BRA-BRGWC-45	Total Radium	0.607	U	0.607	NA	13
BRA-PZ-74I	Total Radium	0.811	U	0.811	NA	13
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	NA	13
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	NA	13
BRA-PZ-52D	Total Radium	1.14	U	1.14	NA	13
BRA-APE-FB-08	Total Radium	2.50	NA	2.50	U	13

pCi/L-picocuries per liter

U-not detected at or above the MDC

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 2483512, 2482017 and 2485948). Four method blanks were reported for the radium-228 data (batches 2483519, 2483035, 2494433 and 2485947). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

634789 and 634781: Radium-228 (1.94 pCi/L) was detected in the method blank in batch 2483519 at a concentration greater than the MDC. Since the mean differences were less than 2 between the blank and samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and the sample concentrations were less than ten times the blank concentration, the radium-228 concentrations for samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and combined radium concentrations for samples BRA-APBCD-FB-03 and BRA-PZ-53D were UJ qualified as estimated less than the reported concentrations and the combined radium concentrations in samples BRA-PZ-75I were J qualified as estimated. Since the mean differences were greater than 2 and less than 3 between the blank and samples BRA-APBCD-FD-03 and BRA-BRGWC-52I and the sample concentrations were less than ten times the blank concentration, the radium-228 and combined radium concentrations for samples BRA-APBCD-FD-03 and BRA-BRGWC-52I were J qualified as estimated.

634446, 634450 and 634443: Radium-228 (1.38 pCi/L) was detected in the method blank in batch 2494433 at a concentration greater than the MDC. Since radium-228 was not detected at concentrations greater than the MDC in the associated samples, no qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.4 Matrix Spike (MS)

Four sample set specific MSs were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for radium-226 and four LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S and four sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.454 pCi/L) was detected in the BRA-APBCD-FB-01 at a concentration greater than the MDC. Radium-226 (0.377 pCi/L) was detected in the BRA-APE-FB-07 at a concentration greater than the MDC.

For radium-226 concentrations less than ten times the field blank concentration with a mean difference less than two, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the field blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

Radium-228 (1.61 pCi/L) was detected in the BRA-APE-FB-03 at a concentration greater than the MDC. Since the radium-228 concentration in BRA-APE-FB-03 was UJ qualified as not detected at the reported concentration due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.816 pCi/L) was detected in the BRA-APE-EB-04 at a concentration greater than the MDC. Radium-226 (0.639 pCi/L) was detected in the BRA-APE-EB-06 at a concentration greater than the MDC. Radium-226 (0.662 pCi/L) was detected in the BRA-APE-EB-09 at a concentration greater than the MDC. The associated samples were qualified as following:

For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference less than 2, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.10 Field Duplicate

Five field duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

ATTACHMENT 3
BLANK QUALIFICATIONS

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APE-FD-04	Radium-226	0.466	NA	0.466	UJ	3
BRA-APE-FD-04	Total Radium	1.55	NA	1.55	UJ	3
BRA-BRGWC-34S	Radium-226	0.499	NA	0.499	UJ	3
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	UJ	3
BRA-BRGWC-37S	Radium-226	0.578	NA	0.578	UJ	3
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	UJ	3
BRA-PZ-13S	Radium-226	0.550	NA	0.550	UJ	3
BRA-PZ-13S	Total Radium	0.823	U	0.823	UJ	3
BRA-APE-FD-05	Radium-226	0.559	NA	0.559	UJ	3
BRA-APE-FD-05	Total Radium	4.65	NA	4.65	J	3
BRA-BRGWC-35S	Radium-226	0.546	NA	0.546	UJ	3
BRA-BRGWC-35S	Total Radium	3.33	NA	3.33	J	3
BRA-BRGWC-36S	Radium-226	0.594	NA	0.594	UJ	3
BRA-BRGWC-36S	Total Radium	3.87	NA	3.87	J	3
BRA-BRGWC-38S	Radium-226	0.610	NA	0.610	UJ	3
BRA-BRGWC-38S	Total Radium	5.98	NA	5.98	J	3
BRA-PZ-70I	Radium-226	0.655	NA	0.655	UJ	3
BRA-PZ-70I	Total Radium	4.35	NA	4.35	J	3
BRA-BRGWA-2I	Radium-226	0.490	NA	0.490	UJ	3
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	UJ	3
BRA-BRGWA-2S	Radium-226	0.377	NA	0.377	UJ	3
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	UJ	3
BRA-BRGWA-5I	Radium-226	0.501	NA	0.501	UJ	3
BRA-BRGWA-5I	Total Radium	1.36	NA	1.36	UJ	3
BRA-APBCD-FD-01	Radium-226	1.09	NA	1.09	UJ	3
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	UJ	3
BRA-APBCD-FD-02	Radium-226	0.652	NA	0.652	UJ	3
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	UJ	3
BRA-BRGWC-50	Radium-226	1.26	NA	1.26	UJ	3
BRA-BRGWC-50	Total Radium	1.55	NA	1.55	UJ	3
BRA-PZ-50D	Radium-226	0.941	NA	0.941	UJ	3
BRA-PZ-50D	Total Radium	2.12	NA	2.12	UJ	3
BRA-PZ-51I	Radium-226	1.02	NA	1.02	UJ	3
BRA-PZ-51I	Total Radium	5.22	NA	5.22	J	3
BRA-PZ-58I	Radium-226	1.95	NA	1.95	J	3
BRA-PZ-58I	Total Radium	3.71	NA	3.71	J	3

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Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-60I	Radium-226	1.83	NA	1.83	J	3
BRA-PZ-60I	Total Radium	4.48	NA	4.48	J	3
BRA-PZ-63I	Radium-226	0.873	NA	0.873	UJ	3
BRA-PZ-63I	Total Radium	2.31	NA	2.31	UJ	3
BRA-PZ-68D	Radium-226	0.786	NA	0.786	UJ	3
BRA-PZ-68D	Total Radium	1.62	NA	1.62	UJ	3
BRA-BRGWA-23S	Radium-226	1.06	NA	1.06	UJ	3
BRA-BRGWA-23S	Total Radium	2.16	NA	2.16	UJ	3
BRA-BRGWC-30I	Radium-226	0.736	NA	0.736	UJ	3
BRA-BRGWC-30I	Total Radium	2.71	NA	2.71	UJ	3
BRA-BRGWC-32S	Radium-226	0.729	NA	0.729	UJ	3
BRA-BRGWC-32S	Total Radium	2.33	NA	2.33	UJ	3
BRA-PZ-61I	Radium-226	0.353	NA	0.353	UJ	3
BRA-PZ-61I	Total Radium	0.868	U	0.868	UJ	3
BRA-APBCD-FB-03	Radium-228	1.61	NA	1.61	UJ	3
BRA-APBCD-FB-03	Total Radium	1.93	NA	1.93	UJ	3
BRA-APBCD-FD-03	Radium-228	4.38	NA	4.38	J	3
BRA-APBCD-FD-03	Total Radium	4.92	NA	4.92	J	3
BRA-BRGWC-25I	Radium-226	0.574	NA	0.574	UJ	3
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	UJ	3
BRA-BRGWC-27I	Radium-226	1.13	NA	1.13	UJ	3
BRA-BRGWC-27I	Total Radium	2.23	NA	2.23	UJ	3
BRA-BRGWC-29I	Radium-226	1.12	NA	1.12	UJ	3
BRA-BRGWC-29I	Total Radium	3.02	NA	3.02	UJ	3
BRA-BRGWC-45	Radium-226	0.607	NA	0.607	UJ	3
BRA-BRGWC-45	Total Radium	0.607	U	0.607	UJ	3
BRA-BRGWC-47	Radium-226	0.834	NA	0.834	UJ	3
BRA-BRGWC-47	Total Radium	2.39	NA	2.39	UJ	3
BRA-BRGWC-52I	Radium-226	1.50	NA	1.50	UJ	3
BRA-BRGWC-52I	Radium-228	4.85	NA	4.85	J	3
BRA-BRGWC-52I	Total Radium	6.36	NA	6.36	J	3
BRA-PZ-51D	Radium-226	0.860	NA	0.860	UJ	3
BRA-PZ-51D	Total Radium	1.27	NA	1.27	UJ	3
BRA-PZ-74I	Radium-226	0.620	NA	0.620	UJ	3
BRA-PZ-74I	Total Radium	0.811	U	0.811	UJ	3
BRA-PZ-75I	Radium-226	1.20	NA	1.20	UJ	3
BRA-PZ-75I	Radium-228	1.91	NA	1.91	UJ	3
BRA-PZ-75I	Total Radium	3.11	NA	3.11	J	3
BRA-PZ-52D	Radium-226	0.481	NA	0.481	UJ	3

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Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-52D	Total Radium	1.14	U	1.14	UJ	3
BRA-PZ-53D	Radium-226	1.01	NA	1.01	UJ	3
BRA-PZ-53D	Radium-228	2.65	NA	2.65	UJ	3
BRA-PZ-53D	Total Radium	3.67	NA	3.67	UJ	3

pCi/L-picocuries per liter

U-not detected at or above the MDC

NA-not applicable

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:47:33 AM

Project: Plant Branch Ash Ponds

Operator Name: Hunter Auld

Location Name: BRGWA-2I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 54.3 ft Total Depth: 64.3 ft Initial Depth to Water: 12.07 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 59.5 ft Estimated Total Volume Pumped: 2.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 17.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sampled at 1012. Clear, 80s. Ferrous iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:47 AM	00:00	7.76 pH	26.70 °C	240.53 µS/cm	7.69 mg/L	5.00 NTU	180.5 mV	12.07 ft	200.00 ml/min
8/22/2023 9:52 AM	05:00	6.87 pH	21.87 °C	146.31 µS/cm	0.67 mg/L	0.70 NTU	63.1 mV	13.10 ft	100.00 ml/min
8/22/2023 9:57 AM	10:00	6.91 pH	21.91 °C	151.72 µS/cm	0.24 mg/L	1.10 NTU	84.6 mV	13.30 ft	100.00 ml/min
8/22/2023 10:02 AM	15:00	6.93 pH	21.80 °C	150.42 µS/cm	0.22 mg/L	0.90 NTU	89.7 mV	13.40 ft	100.00 ml/min
8/22/2023 10:07 AM	20:00	6.95 pH	21.69 °C	148.41 µS/cm	0.19 mg/L	0.80 NTU	84.5 mV	13.50 ft	100.00 ml/min
8/22/2023 10:12 AM	25:00	6.95 pH	21.78 °C	148.81 µS/cm	0.16 mg/L	1.00 NTU	84.3 mV	13.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:41:09 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: BRGWA-2S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.6 ft Total Depth: 44.6 ft Initial Depth to Water: 12.33 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 39 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1006. Ferrous iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:41 AM	00:00	6.69 pH	29.28 °C	7.33 µS/cm	6.90 mg/L	1.84 NTU	251.6 mV	12.33 ft	225.00 ml/min
8/22/2023 9:46 AM	05:00	6.08 pH	23.51 °C	54.96 µS/cm	3.40 mg/L	1.29 NTU	73.3 mV	12.40 ft	225.00 ml/min
8/22/2023 9:51 AM	10:00	6.02 pH	20.04 °C	50.29 µS/cm	1.85 mg/L	1.13 NTU	47.3 mV	12.50 ft	225.00 ml/min
8/22/2023 9:56 AM	15:00	5.97 pH	19.80 °C	50.35 µS/cm	1.31 mg/L	0.94 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:01 AM	20:00	5.97 pH	19.75 °C	48.65 µS/cm	1.31 mg/L	0.59 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:06 AM	25:00	5.96 pH	19.80 °C	48.21 µS/cm	1.21 mg/L	0.64 NTU	41.3 mV	12.50 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:30 AM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: BRGWA-5I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.89 ft Total Depth: 63.89 ft Initial Depth to Water: 12.88 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1010. Sunny 80s. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.59 pH	22.07 °C	117.61 µS/cm		3.64 NTU	64.4 mV	12.88 ft	250.00 ml/min
8/22/2023 9:45 AM	05:00	6.42 pH	20.07 °C	118.45 µS/cm		2.89 NTU	73.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:50 AM	10:00	6.36 pH	19.77 °C	118.53 µS/cm		2.25 NTU	103.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:55 AM	15:00	6.36 pH	20.03 °C	117.55 µS/cm	5.49 mg/L	2.63 NTU	77.5 mV	13.10 ft	250.00 ml/min
8/22/2023 10:00 AM	20:00	6.34 pH	19.77 °C	118.19 µS/cm	5.53 mg/L	3.75 NTU	125.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:05 AM	25:00	6.24 pH	19.91 °C	117.81 µS/cm	5.54 mg/L	3.81 NTU	123.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:10 AM	30:00	6.24 pH	19.92 °C	118.66 µS/cm	5.59 mg/L	2.95 NTU	204.5 mV	13.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:08 AM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: BRGWA-5S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.06 ft Total Depth: 43.06 ft Initial Depth to Water: 12.87 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 38.06 ft Estimated Total Volume Pumped: 4.375 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 3.36 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1005.

Sunny, 84 degrees F. Ferrous Iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.31 pH	26.30 °C	139.76 µS/cm	3.90 mg/L	2.24 NTU	115.0 mV	12.87 ft	175.00 ml/min
8/22/2023 9:45 AM	05:00	6.03 pH	20.27 °C	113.30 µS/cm	2.31 mg/L	2.01 NTU	67.4 mV	13.01 ft	175.00 ml/min
8/22/2023 9:50 AM	10:00	6.07 pH	20.15 °C	116.53 µS/cm	1.94 mg/L	2.26 NTU	56.7 mV	13.12 ft	175.00 ml/min
8/22/2023 9:55 AM	15:00	6.09 pH	19.97 °C	118.14 µS/cm	1.87 mg/L	2.82 NTU	51.9 mV	13.15 ft	175.00 ml/min
8/22/2023 10:00 AM	20:00	6.09 pH	19.99 °C	118.67 µS/cm	1.87 mg/L	2.72 NTU	49.0 mV	13.15 ft	175.00 ml/min
8/22/2023 10:05 AM	25:00	6.08 pH	20.29 °C	118.53 µS/cm	1.90 mg/L	2.70 NTU	47.5 mV	13.15 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:34 AM

Project: Plant Branch Ash Ponds

Operator Name: Taylor Goble

Location Name: BRGWA-6S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.86 ft Total Depth: 52.86 ft Initial Depth to Water: 26.51 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 8050 ml Flow Cell Volume: 90 ml Final Flow Rate: 230 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1015. Clear 85 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 9:40 AM	00:00	7.18 pH	24.81 °C	76.58 µS/cm	6.92 mg/L	3.35 NTU	133.2 mV	26.85 ft	230.00 ml/min
8/22/2023 9:45 AM	05:00	6.68 pH	21.85 °C	66.74 µS/cm	7.09 mg/L	2.29 NTU	117.2 mV	26.92 ft	230.00 ml/min
8/22/2023 9:50 AM	10:00	6.41 pH	21.75 °C	65.74 µS/cm	7.06 mg/L	2.03 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 9:55 AM	15:00	6.27 pH	21.75 °C	65.26 µS/cm	7.07 mg/L	1.88 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:00 AM	20:00	6.17 pH	21.68 °C	60.46 µS/cm	7.09 mg/L	1.71 NTU	115.8 mV	26.96 ft	230.00 ml/min
8/22/2023 10:05 AM	25:00	6.16 pH	21.77 °C	64.87 µS/cm	7.28 mg/L	1.63 NTU	115.9 mV	26.96 ft	230.00 ml/min
8/22/2023 10:10 AM	30:00	6.10 pH	21.82 °C	64.86 µS/cm	7.10 mg/L	1.30 NTU	119.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:15 AM	35:00	6.09 pH	22.10 °C	65.14 µS/cm	7.18 mg/L	1.23 NTU	120.1 mV	26.96 ft	230.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:40:26 AM

Project: Plant Branch Ash Ponds

Operator Name: Hunter Auld

Location Name: BRGWA-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.87 ft Total Depth: 43.87 ft Initial Depth to Water: 38.72 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 39.5 ft Estimated Total Volume Pumped: 10.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sampled at 1240. Clear, 90s. Water level below top of pump. Ferrous iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 11:40 AM	00:00	7.26 pH	30.61 °C	0.00 µS/cm	7.56 mg/L	5.00 NTU	70.9 mV	38.72 ft	180.00 ml/min
8/22/2023 11:45 AM	05:00	6.28 pH	24.47 °C	93.43 µS/cm	6.03 mg/L	6.10 NTU	95.6 mV	39.00 ft	180.00 ml/min
8/22/2023 11:50 AM	10:00	6.03 pH	24.09 °C	93.17 µS/cm	5.30 mg/L	7.50 NTU	100.1 mV	39.00 ft	180.00 ml/min
8/22/2023 11:55 AM	15:00	5.96 pH	23.66 °C	93.84 µS/cm	5.10 mg/L	7.30 NTU	102.3 mV	39.00 ft	180.00 ml/min
8/22/2023 12:00 PM	20:00	5.86 pH	23.68 °C	82.54 µS/cm	5.02 mg/L	4.20 NTU	108.2 mV	39.00 ft	180.00 ml/min
8/22/2023 12:05 PM	25:00	5.93 pH	23.58 °C	93.16 µS/cm	4.99 mg/L	4.10 NTU	103.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:10 PM	30:00	5.91 pH	24.15 °C	93.63 µS/cm	5.03 mg/L	4.60 NTU	103.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:15 PM	35:00	5.91 pH	24.06 °C	93.57 µS/cm	5.04 mg/L	4.40 NTU	104.3 mV	39.00 ft	180.00 ml/min
8/22/2023 12:20 PM	40:00	5.89 pH	24.25 °C	95.56 µS/cm	4.70 mg/L	4.60 NTU	106.4 mV	39.00 ft	180.00 ml/min
8/22/2023 12:25 PM	45:00	5.90 pH	24.30 °C	95.65 µS/cm	4.64 mg/L	5.00 NTU	106.0 mV	39.00 ft	180.00 ml/min
8/22/2023 12:30 PM	50:00	5.90 pH	24.52 °C	95.65 µS/cm	4.96 mg/L	4.90 NTU	105.2 mV	39.00 ft	180.00 ml/min
8/22/2023 12:35 PM	55:00	5.89 pH	24.61 °C	94.67 µS/cm	5.18 mg/L	4.20 NTU	106.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:40 PM	01:00:00	5.89 pH	25.82 °C	95.40 µS/cm	5.21 mg/L	3.97 NTU	106.1 mV	39.00 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 3:47:33 PM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: BRGWC-25I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 10.5 ft Total Depth: 20.5 ft Initial Depth to Water: 11.12 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 15.5 ft Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 2.28 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1647.

Sunny, 94 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 3:47 PM	00:00	6.58 pH	35.09 °C	452.37 µS/cm	5.03 mg/L	2.01 NTU	97.3 mV	11.12 ft	300.00 ml/min
8/24/2023 3:52 PM	05:00	6.26 pH	21.55 °C	470.93 µS/cm	1.15 mg/L	1.38 NTU	106.5 mV	11.14 ft	300.00 ml/min
8/24/2023 3:57 PM	10:00	6.23 pH	22.07 °C	466.11 µS/cm	0.74 mg/L	1.37 NTU	108.7 mV	11.18 ft	300.00 ml/min
8/24/2023 4:02 PM	15:00	6.22 pH	20.46 °C	475.96 µS/cm	0.16 mg/L	1.27 NTU	109.5 mV	11.24 ft	300.00 ml/min
8/24/2023 4:07 PM	20:00	6.21 pH	20.34 °C	478.12 µS/cm	0.15 mg/L	1.14 NTU	110.3 mV	11.29 ft	300.00 ml/min
8/24/2023 4:12 PM	25:00	6.19 pH	20.25 °C	479.92 µS/cm	0.14 mg/L	0.97 NTU	110.8 mV	11.29 ft	300.00 ml/min
8/24/2023 4:17 PM	30:00	6.18 pH	20.14 °C	479.36 µS/cm	0.13 mg/L	1.09 NTU	111.1 mV	11.30 ft	300.00 ml/min
8/24/2023 4:22 PM	35:00	6.17 pH	20.09 °C	480.02 µS/cm	0.13 mg/L	0.64 NTU	111.9 mV	11.31 ft	300.00 ml/min
8/24/2023 4:27 PM	40:00	6.16 pH	20.17 °C	480.74 µS/cm	0.13 mg/L	0.61 NTU	112.1 mV	11.31 ft	300.00 ml/min
8/24/2023 4:32 PM	45:00	6.16 pH	20.17 °C	480.41 µS/cm	0.13 mg/L	0.59 NTU	112.6 mV	11.31 ft	300.00 ml/min
8/24/2023 4:37 PM	50:00	6.15 pH	20.12 °C	479.89 µS/cm	0.12 mg/L	0.58 NTU	112.9 mV	11.31 ft	300.00 ml/min
8/24/2023 4:42 PM	55:00	6.15 pH	20.04 °C	480.29 µS/cm	0.12 mg/L	0.60 NTU	113.3 mV	11.31 ft	300.00 ml/min
8/24/2023 4:47 PM	01:00:00	6.14 pH	20.06 °C	480.61 µS/cm	0.13 mg/L	0.59 NTU	113.7 mV	11.31 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 11:55:17 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: BRGWC-27I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14 ft Total Depth: 24 ft Initial Depth to Water: 11.12 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 21 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time- 1225, fe2+=0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 11:55 AM	00:00	6.04 pH	43.62 °C	0.07 µS/cm	6.14 mg/L	7.31 NTU	97.2 mV	11.12 ft	200.00 ml/min
8/24/2023 12:00 PM	05:00	5.77 pH	25.48 °C	255.57 µS/cm	2.13 mg/L	6.94 NTU	55.7 mV	11.20 ft	200.00 ml/min
8/24/2023 12:05 PM	10:00	5.90 pH	23.18 °C	272.27 µS/cm	1.34 mg/L	3.58 NTU	69.2 mV	11.20 ft	200.00 ml/min
8/24/2023 12:10 PM	15:00	5.93 pH	22.29 °C	278.71 µS/cm	0.54 mg/L	0.43 NTU	74.3 mV	11.20 ft	200.00 ml/min
8/24/2023 12:15 PM	20:00	5.97 pH	21.90 °C	282.49 µS/cm	0.27 mg/L	0.51 NTU	75.8 mV	11.20 ft	200.00 ml/min
8/24/2023 12:20 PM	25:00	6.00 pH	21.67 °C	284.07 µS/cm	0.21 mg/L	0.49 NTU	72.5 mV	11.20 ft	200.00 ml/min
8/24/2023 12:25 PM	30:00	6.01 pH	21.65 °C	285.51 µS/cm	0.20 mg/L	0.46 NTU	72.5 mV	11.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 2:20:08 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: BRGWC-29I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 10 ft Total Depth: 20 ft Initial Depth to Water: 10.8 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 15 ft Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time -1520 fe2+= 6.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 2:20 PM	00:00	3.47 pH	36.59 °C	351.03 µS/cm	5.30 mg/L	0.52 NTU	104.0 mV	10.80 ft	300.00 ml/min
8/24/2023 2:25 PM	05:00	3.81 pH	25.94 °C	366.12 µS/cm	2.47 mg/L	0.98 NTU	119.9 mV	10.90 ft	300.00 ml/min
8/24/2023 2:30 PM	10:00	3.87 pH	28.90 °C	377.37 µS/cm	2.23 mg/L	1.40 NTU	126.8 mV	10.90 ft	300.00 ml/min
8/24/2023 2:35 PM	15:00	4.32 pH	23.52 °C	361.70 µS/cm	0.37 mg/L	0.82 NTU	127.8 mV	10.90 ft	300.00 ml/min
8/24/2023 2:40 PM	20:00	4.41 pH	23.04 °C	364.04 µS/cm	0.21 mg/L	0.77 NTU	122.6 mV	10.90 ft	300.00 ml/min
8/24/2023 2:45 PM	25:00	4.44 pH	22.93 °C	363.63 µS/cm	0.18 mg/L	0.56 NTU	119.4 mV	10.90 ft	300.00 ml/min
8/24/2023 2:50 PM	30:00	4.45 pH	23.06 °C	364.08 µS/cm	0.16 mg/L	0.63 NTU	117.2 mV	10.90 ft	300.00 ml/min
8/24/2023 2:55 PM	35:00	4.46 pH	23.30 °C	363.65 µS/cm	0.15 mg/L	0.64 NTU	115.6 mV	10.90 ft	300.00 ml/min
8/24/2023 3:00 PM	40:00	4.47 pH	23.51 °C	362.47 µS/cm	0.14 mg/L	0.50 NTU	108.3 mV	10.90 ft	300.00 ml/min
8/24/2023 3:05 PM	45:00	4.47 pH	23.65 °C	362.37 µS/cm	0.14 mg/L	0.52 NTU	112.8 mV	10.90 ft	300.00 ml/min
8/24/2023 3:10 PM	50:00	4.47 pH	23.64 °C	363.04 µS/cm	0.14 mg/L	0.38 NTU	106.9 mV	10.90 ft	300.00 ml/min
8/24/2023 3:15 PM	55:00	4.48 pH	23.96 °C	365.65 µS/cm	0.13 mg/L	0.47 NTU	111.7 mV	10.90 ft	300.00 ml/min
8/24/2023 3:20 PM	01:00:00	4.48 pH	23.85 °C	357.61 µS/cm	0.12 mg/L	0.43 NTU	106.6 mV	10.90 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:57:13 PM

Project: Plant Branch Ash Ponds

Operator Name: Hunter Auld

Location Name: BRGWC-30I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 10.3 ft Total Depth: 20.3 ft Initial Depth to Water: 4.88 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 15 ft Estimated Total Volume Pumped: 24.2 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 2.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sampled at 1522. Partly cloudy, 90s. Ferrous iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 1:57 PM	00:00	6.32 pH	34.43 °C	1,650.9 µS/cm	4.79 mg/L	500.00 NTU	104.0 mV	4.88 ft	200.00 ml/min
8/22/2023 2:02 PM	05:00	6.41 pH	26.39 °C	1,784.9 µS/cm	2.30 mg/L	460.00 NTU	78.7 mV	4.90 ft	200.00 ml/min
8/22/2023 2:07 PM	10:00	6.43 pH	23.58 °C	1,968.3 µS/cm	0.23 mg/L	130.00 NTU	79.4 mV	4.90 ft	200.00 ml/min
8/22/2023 2:12 PM	15:00	6.45 pH	23.11 °C	2,011.7 µS/cm	0.11 mg/L	66.90 NTU	79.6 mV	4.90 ft	300.00 ml/min
8/22/2023 2:17 PM	20:00	6.46 pH	22.70 °C	2,009.4 µS/cm	0.09 mg/L	40.70 NTU	79.3 mV	5.00 ft	300.00 ml/min
8/22/2023 2:22 PM	25:00	6.45 pH	22.78 °C	2,010.4 µS/cm	0.09 mg/L	29.70 NTU	79.2 mV	5.00 ft	300.00 ml/min
8/22/2023 2:27 PM	30:00	6.45 pH	22.81 °C	2,012.5 µS/cm	0.08 mg/L	19.50 NTU	78.7 mV	5.00 ft	300.00 ml/min
8/22/2023 2:32 PM	35:00	6.45 pH	22.72 °C	2,008.4 µS/cm	0.07 mg/L	18.40 NTU	78.3 mV	5.00 ft	300.00 ml/min
8/22/2023 2:37 PM	40:00	6.45 pH	22.62 °C	2,009.7 µS/cm	0.07 mg/L	15.00 NTU	78.1 mV	5.00 ft	300.00 ml/min
8/22/2023 2:42 PM	45:00	6.44 pH	22.87 °C	2,011.8 µS/cm	0.07 mg/L	12.30 NTU	77.5 mV	5.00 ft	300.00 ml/min
8/22/2023 2:47 PM	50:00	6.44 pH	22.67 °C	2,013.8 µS/cm	0.07 mg/L	9.20 NTU	78.7 mV	5.00 ft	300.00 ml/min
8/22/2023 2:52 PM	55:00	6.44 pH	22.80 °C	2,004.0 µS/cm	0.06 mg/L	9.20 NTU	77.4 mV	5.00 ft	300.00 ml/min
8/22/2023 2:57 PM	01:00:00	6.44 pH	22.63 °C	2,002.0 µS/cm	0.07 mg/L	7.40 NTU	77.0 mV	5.00 ft	300.00 ml/min
8/22/2023 3:02 PM	01:05:00	6.44 pH	22.47 °C	1,999.9 µS/cm	0.07 mg/L	6.10 NTU	77.0 mV	5.00 ft	300.00 ml/min

8/22/2023 3:07 PM	01:10:00	6.44 pH	22.63 °C	2,010.7 µS/cm	0.07 mg/L	6.10 NTU	76.7 mV	5.00 ft	300.00 ml/min
8/22/2023 3:12 PM	01:15:00	6.44 pH	22.54 °C	2,006.9 µS/cm	0.07 mg/L	5.70 NTU	76.4 mV	5.00 ft	300.00 ml/min
8/22/2023 3:17 PM	01:20:00	6.44 pH	22.81 °C	2,008.3 µS/cm	0.07 mg/L	5.50 NTU	76.5 mV	5.00 ft	300.00 ml/min
8/22/2023 3:22 PM	01:25:00	6.44 pH	22.56 °C	2,008.2 µS/cm	0.07 mg/L	4.80 NTU	76.2 mV	5.00 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 12:55:22 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: BRGWC-32S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.35 ft Total Depth: 48.35 ft Initial Depth to Water: 40.5 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 43 ft Estimated Total Volume Pumped: 14.87 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time -1420, WL below top of pump. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 12:55 PM	00:00	7.83 pH	37.48 °C	0.75 µS/cm	5.77 mg/L	38.00 NTU	57.5 mV	40.50 ft	175.00 ml/min
8/22/2023 1:00 PM	05:00	6.02 pH	25.13 °C	326.93 µS/cm	3.93 mg/L	20.00 NTU	62.7 mV		175.00 ml/min
8/22/2023 1:05 PM	10:00	5.97 pH	24.14 °C	343.94 µS/cm	2.85 mg/L	13.00 NTU	70.1 mV		175.00 ml/min
8/22/2023 1:10 PM	15:00	5.94 pH	24.18 °C	347.46 µS/cm	2.68 mg/L	8.24 NTU	71.2 mV		175.00 ml/min
8/22/2023 1:15 PM	20:00	5.96 pH	24.30 °C	349.32 µS/cm	2.63 mg/L	6.11 NTU	72.1 mV		175.00 ml/min
8/22/2023 1:20 PM	25:00	5.96 pH	24.22 °C	350.15 µS/cm	2.61 mg/L	5.38 NTU	71.8 mV		175.00 ml/min
8/22/2023 1:25 PM	30:00	5.96 pH	23.96 °C	351.97 µS/cm	2.54 mg/L	4.98 NTU	73.9 mV		175.00 ml/min
8/22/2023 1:30 PM	35:00	5.97 pH	24.00 °C	353.21 µS/cm	2.54 mg/L	5.10 NTU	74.1 mV		175.00 ml/min
8/22/2023 1:35 PM	40:00	5.97 pH	24.18 °C	351.29 µS/cm	2.54 mg/L	4.71 NTU	74.6 mV		175.00 ml/min
8/22/2023 1:40 PM	45:00	5.97 pH	23.96 °C	350.87 µS/cm	2.54 mg/L	4.48 NTU	75.2 mV		175.00 ml/min
8/22/2023 1:45 PM	50:00	5.98 pH	23.50 °C	351.08 µS/cm	2.52 mg/L	3.14 NTU	76.4 mV		175.00 ml/min
8/22/2023 1:50 PM	55:00	5.97 pH	23.70 °C	351.34 µS/cm	2.63 mg/L	2.79 NTU	75.0 mV		175.00 ml/min
8/22/2023 1:55 PM	01:00:00	5.98 pH	23.95 °C	352.02 µS/cm	2.62 mg/L	2.55 NTU	76.5 mV		175.00 ml/min
8/22/2023 2:00 PM	01:05:00	5.98 pH	23.82 °C	354.13 µS/cm	2.69 mg/L	2.58 NTU	77.0 mV		175.00 ml/min

8/22/2023 2:05 PM	01:10:00	5.98 pH	23.84 °C	351.65 µS/cm	2.69 mg/L	1.85 NTU	77.6 mV		175.00 ml/min
8/22/2023 2:10 PM	01:15:00	5.98 pH	24.05 °C	353.12 µS/cm	2.83 mg/L	2.05 NTU	77.5 mV		175.00 ml/min
8/22/2023 2:15 PM	01:20:00	5.99 pH	23.87 °C	353.23 µS/cm	2.93 mg/L	2.58 NTU	78.1 mV		175.00 ml/min
8/22/2023 2:20 PM	01:25:00	5.98 pH	23.62 °C	354.13 µS/cm	2.91 mg/L	1.78 NTU	78.9 mV		175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:41:32 AM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: BRGWC-45 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47 ft Total Depth: 57 ft Initial Depth to Water: 15.3 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 21.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 7.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1206.

Sunny, 86 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:41 AM	00:00	6.36 pH	32.11 °C	396.81 µS/cm	6.28 mg/L	2.09 NTU	149.3 mV	15.30 ft	250.00 ml/min
8/24/2023 10:46 AM	05:00	5.73 pH	22.45 °C	323.45 µS/cm	1.67 mg/L	1.94 NTU	94.8 mV	15.82 ft	250.00 ml/min
8/24/2023 10:51 AM	10:00	5.71 pH	22.32 °C	325.21 µS/cm	0.99 mg/L	1.82 NTU	90.9 mV	15.91 ft	250.00 ml/min
8/24/2023 10:56 AM	15:00	5.72 pH	22.18 °C	325.35 µS/cm	0.91 mg/L	1.90 NTU	89.5 mV	15.91 ft	250.00 ml/min
8/24/2023 11:01 AM	20:00	5.73 pH	22.12 °C	271.86 µS/cm	0.88 mg/L	2.51 NTU	88.4 mV	15.91 ft	250.00 ml/min
8/24/2023 11:06 AM	25:00	5.73 pH	22.42 °C	327.70 µS/cm	0.90 mg/L	2.92 NTU	87.9 mV	15.91 ft	250.00 ml/min
8/24/2023 11:11 AM	30:00	5.72 pH	22.48 °C	323.58 µS/cm	0.95 mg/L	2.68 NTU	88.0 mV	15.93 ft	250.00 ml/min
8/24/2023 11:16 AM	35:00	5.71 pH	22.42 °C	326.86 µS/cm	0.94 mg/L	3.20 NTU	87.8 mV	15.93 ft	250.00 ml/min
8/24/2023 11:21 AM	40:00	5.71 pH	22.20 °C	321.22 µS/cm	0.87 mg/L	2.94 NTU	87.4 mV	15.93 ft	250.00 ml/min
8/24/2023 11:26 AM	45:00	5.71 pH	22.10 °C	180.75 µS/cm	0.92 mg/L	3.20 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:31 AM	50:00	5.70 pH	22.19 °C	326.80 µS/cm	0.86 mg/L	3.54 NTU	87.8 mV	15.94 ft	250.00 ml/min
8/24/2023 11:36 AM	55:00	5.70 pH	22.12 °C	325.78 µS/cm	0.88 mg/L	3.48 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:41 AM	01:00:00	5.70 pH	22.13 °C	325.47 µS/cm	0.77 mg/L	3.44 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:46 AM	01:05:00	5.69 pH	22.10 °C	326.16 µS/cm	0.76 mg/L	3.43 NTU	88.1 mV	15.94 ft	250.00 ml/min

8/24/2023 11:51 AM	01:10:00	5.69 pH	22.24 °C	325.16 µS/cm	0.95 mg/L	3.44 NTU	88.1 mV	15.94 ft	250.00 ml/min
8/24/2023 11:56 AM	01:15:00	5.69 pH	22.10 °C	325.56 µS/cm	0.77 mg/L	3.44 NTU	88.6 mV	15.94 ft	250.00 ml/min
8/24/2023 12:01 PM	01:20:00	5.70 pH	22.11 °C	325.54 µS/cm	0.74 mg/L	3.43 NTU	88.1 mV	15.94 ft	250.00 ml/min
8/24/2023 12:06 PM	01:25:00	5.71 pH	22.11 °C	324.97 µS/cm	0.77 mg/L	3.43 NTU	88.2 mV	15.94 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 2:10:13 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: BRGWC-47 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 82 ft Total Depth: 92 ft Initial Depth to Water: 27.47 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 87 ft Estimated Total Volume Pumped: 8.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 11 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1445. Sunny 90s. EB-03 here at 1400. Ferrous Iron 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 2:10 PM	00:00	6.25 pH	36.43 °C	1,289.2 µS/cm	6.28 mg/L	0.71 NTU	60.8 mV	27.47 ft	250.00 ml/min
8/24/2023 2:15 PM	05:00	5.78 pH	24.24 °C	1,367.8 µS/cm	1.56 mg/L	1.58 NTU	91.8 mV	28.20 ft	250.00 ml/min
8/24/2023 2:20 PM	10:00	5.73 pH	23.30 °C	1,383.7 µS/cm	1.31 mg/L	1.73 NTU	149.0 mV	28.20 ft	250.00 ml/min
8/24/2023 2:25 PM	15:00	5.71 pH	23.33 °C	1,383.4 µS/cm	1.24 mg/L	1.33 NTU	166.0 mV	28.20 ft	250.00 ml/min
8/24/2023 2:30 PM	20:00	5.71 pH	23.22 °C	1,385.6 µS/cm	1.13 mg/L	0.98 NTU	175.5 mV	28.30 ft	250.00 ml/min
8/24/2023 2:35 PM	25:00	5.70 pH	23.30 °C	1,388.4 µS/cm	1.30 mg/L	0.83 NTU	176.5 mV	28.30 ft	250.00 ml/min
8/24/2023 2:40 PM	30:00	5.69 pH	23.16 °C	1,388.8 µS/cm	1.32 mg/L	0.89 NTU	166.9 mV	28.30 ft	250.00 ml/min
8/24/2023 2:45 PM	35:00	5.69 pH	23.12 °C	1,393.9 µS/cm	1.21 mg/L	0.84 NTU	132.5 mV	28.40 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:00:08 AM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

<p>Location Name: BRGWC-50 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55 ft Total Depth: 65 ft Initial Depth to Water: 38.17 ft</p>	<p>Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 14 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 728623</p>
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Test Notes:

Sample time 1100. Sunny 80s. FD-01 here. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:00 AM	00:00	5.27 pH	23.80 °C	1,415.6 µS/cm	1.46 mg/L	2.58 NTU	165.3 mV	38.17 ft	250.00 ml/min
8/23/2023 10:05 AM	05:00	5.16 pH	22.18 °C	1,449.7 µS/cm	0.95 mg/L	2.63 NTU	198.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:10 AM	10:00	5.15 pH	22.17 °C	1,451.0 µS/cm	0.64 mg/L	2.12 NTU	146.2 mV	39.30 ft	250.00 ml/min
8/23/2023 10:15 AM	15:00	5.14 pH	22.04 °C	1,446.3 µS/cm	0.50 mg/L	1.66 NTU	183.6 mV	39.30 ft	250.00 ml/min
8/23/2023 10:20 AM	20:00	5.15 pH	21.84 °C	1,449.0 µS/cm	0.43 mg/L	1.53 NTU	141.1 mV	39.30 ft	250.00 ml/min
8/23/2023 10:25 AM	25:00	5.13 pH	21.64 °C	1,450.8 µS/cm	0.36 mg/L	1.15 NTU	139.0 mV	39.30 ft	250.00 ml/min
8/23/2023 10:30 AM	30:00	5.14 pH	21.48 °C	1,454.3 µS/cm	0.33 mg/L	0.80 NTU	138.2 mV	39.30 ft	250.00 ml/min
8/23/2023 10:35 AM	35:00	5.14 pH	21.65 °C	1,447.6 µS/cm	0.30 mg/L	0.94 NTU	134.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:40 AM	40:00	5.14 pH	21.83 °C	1,451.9 µS/cm	0.29 mg/L	0.86 NTU	133.6 mV	39.30 ft	250.00 ml/min
8/23/2023 10:45 AM	45:00	5.13 pH	21.65 °C	1,456.0 µS/cm	0.28 mg/L	0.68 NTU	132.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:50 AM	50:00	5.12 pH	21.58 °C	1,460.1 µS/cm	0.28 mg/L	0.51 NTU	132.3 mV	39.30 ft	250.00 ml/min
8/23/2023 10:55 AM	55:00	5.12 pH	21.46 °C	1,453.9 µS/cm	0.27 mg/L	0.59 NTU	157.5 mV	39.30 ft	250.00 ml/min
8/23/2023 11:00 AM	01:00:00	5.12 pH	21.76 °C	1,455.1 µS/cm	0.25 mg/L	0.47 NTU	133.8 mV	39.30 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 12:20:16 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: BRGWC-52I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 39.7 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 68 ft Estimated Total Volume Pumped: 11.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1305. Sunny 90s. FB-03 here at 1255. Ferrous Iron = 1.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 12:20 PM	00:00	11.15 pH	21.91 °C	250.80 µS/cm	2.76 mg/L	1.06 NTU	-62.1 mV	39.70 ft	250.00 ml/min
8/24/2023 12:30 PM	09:46	6.86 pH	26.88 °C	257.04 µS/cm	1.57 mg/L	0.93 NTU	-20.7 mV	40.50 ft	250.00 ml/min
8/24/2023 12:35 PM	14:46	6.98 pH	21.31 °C	266.08 µS/cm	0.64 mg/L	0.99 NTU	-62.3 mV	40.50 ft	250.00 ml/min
8/24/2023 12:40 PM	19:46	6.71 pH	20.93 °C	274.91 µS/cm	0.52 mg/L	0.89 NTU	-56.4 mV	40.50 ft	250.00 ml/min
8/24/2023 12:45 PM	24:46	6.48 pH	20.93 °C	281.36 µS/cm	0.43 mg/L	0.83 NTU	-14.8 mV	40.50 ft	250.00 ml/min
8/24/2023 12:50 PM	29:46	6.42 pH	21.00 °C	284.40 µS/cm	0.36 mg/L	0.78 NTU	1.9 mV	40.50 ft	250.00 ml/min
8/24/2023 12:55 PM	34:46	6.34 pH	20.89 °C	284.97 µS/cm	0.33 mg/L	0.53 NTU	11.0 mV	40.50 ft	250.00 ml/min
8/24/2023 1:00 PM	39:46	6.27 pH	21.04 °C	284.92 µS/cm	0.33 mg/L	0.41 NTU	17.5 mV	40.50 ft	250.00 ml/min
8/24/2023 1:05 PM	44:46	6.24 pH	20.98 °C	285.29 µS/cm	0.32 mg/L	0.45 NTU	22.4 mV	40.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 4:10:17 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: PZ-44 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.5 ft Total Depth: 59.58 ft Initial Depth to Water: 26.65 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 16 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1640. Sunny 90s. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 4:10 PM	00:00	6.18 pH	28.08 °C	179.82 µS/cm	1.40 mg/L	1.57 NTU	79.6 mV	26.65 ft	250.00 ml/min
8/23/2023 4:15 PM	05:00	6.13 pH	24.76 °C	182.87 µS/cm	0.33 mg/L	0.95 NTU	83.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:20 PM	10:00	6.13 pH	24.04 °C	184.62 µS/cm	0.26 mg/L	0.65 NTU	88.1 mV	28.00 ft	250.00 ml/min
8/23/2023 4:25 PM	15:00	6.13 pH	23.87 °C	186.14 µS/cm	0.24 mg/L	0.52 NTU	94.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:30 PM	20:00	6.11 pH	23.60 °C	188.84 µS/cm	0.23 mg/L	0.45 NTU	92.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:35 PM	25:00	6.10 pH	23.47 °C	191.34 µS/cm	0.22 mg/L	0.52 NTU	87.7 mV	28.00 ft	250.00 ml/min
8/23/2023 4:40 PM	30:00	6.11 pH	23.27 °C	190.20 µS/cm	0.20 mg/L	0.48 NTU	87.1 mV	28.00 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:15:46 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: PZ-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 99 ft Total Depth: 109 ft Initial Depth to Water: 38.47 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 106 ft Estimated Total Volume Pumped: 59 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 792 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample not collected. Well purged dry.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 1:15 PM	00:00	6.06 pH	26.98 °C	1,238.1 µS/cm	1.57 mg/L	4.11 NTU	-17.2 mV	38.47 ft	150.00 ml/min
8/22/2023 1:20 PM	05:00	6.07 pH	25.01 °C	1,292.2 µS/cm	0.73 mg/L	3.54 NTU	-0.9 mV	38.90 ft	200.00 ml/min
8/22/2023 1:25 PM	10:00	6.09 pH	24.53 °C	1,294.8 µS/cm	0.57 mg/L	3.06 NTU	-2.1 mV	39.50 ft	200.00 ml/min
8/22/2023 1:30 PM	15:00	6.11 pH	24.42 °C	1,291.4 µS/cm	0.47 mg/L	2.60 NTU	-1.1 mV	40.10 ft	200.00 ml/min
8/22/2023 1:35 PM	20:00	6.11 pH	24.80 °C	1,290.7 µS/cm	0.41 mg/L	2.95 NTU	-12.5 mV	40.80 ft	200.00 ml/min
8/22/2023 1:40 PM	25:00	6.11 pH	25.05 °C	1,280.0 µS/cm		2.74 NTU	-38.8 mV	41.70 ft	200.00 ml/min
8/22/2023 1:45 PM	30:00	6.13 pH	25.49 °C	1,243.4 µS/cm		3.07 NTU	-48.0 mV	42.80 ft	200.00 ml/min
8/22/2023 1:50 PM	35:00	6.19 pH	26.13 °C	1,234.0 µS/cm	2.06 mg/L	2.72 NTU	-53.7 mV	43.50 ft	200.00 ml/min
8/22/2023 1:55 PM	40:00	6.14 pH	25.61 °C	1,232.7 µS/cm	0.32 mg/L	3.09 NTU	-66.9 mV	44.30 ft	200.00 ml/min
8/22/2023 2:00 PM	45:00	6.13 pH	26.48 °C	1,235.2 µS/cm	0.31 mg/L	3.16 NTU	-72.6 mV	44.90 ft	200.00 ml/min
8/22/2023 2:05 PM	50:00	6.14 pH	25.25 °C	1,240.5 µS/cm	0.29 mg/L	2.35 NTU	-72.3 mV	45.70 ft	200.00 ml/min
8/22/2023 2:10 PM	55:00	6.16 pH	25.17 °C	1,212.6 µS/cm	0.30 mg/L	2.46 NTU	-95.3 mV	46.80 ft	200.00 ml/min
8/22/2023 2:15 PM	01:00:00	6.16 pH	24.27 °C	1,215.4 µS/cm	0.28 mg/L	2.40 NTU	-71.0 mV	48.10 ft	200.00 ml/min
8/22/2023 2:20 PM	01:05:00	6.16 pH	24.20 °C	1,210.6 µS/cm	0.30 mg/L	2.39 NTU	-72.2 mV	49.70 ft	200.00 ml/min
8/22/2023 2:25 PM	01:10:00	6.16 pH	23.98 °C	1,217.8 µS/cm	0.31 mg/L	2.74 NTU	-102.0 mV	50.50 ft	200.00 ml/min

8/22/2023 2:30 PM	01:15:00	6.17 pH	23.47 °C	1,223.3 µS/cm	0.26 mg/L	2.65 NTU	-74.7 mV	51.10 ft	200.00 ml/min
8/22/2023 2:35 PM	01:20:00	6.17 pH	23.44 °C	1,224.7 µS/cm	0.28 mg/L	3.00 NTU	-105.6 mV	52.60 ft	200.00 ml/min
8/22/2023 2:40 PM	01:25:00	6.17 pH	23.38 °C	1,228.9 µS/cm	0.23 mg/L	2.56 NTU	-107.8 mV	53.80 ft	200.00 ml/min
8/22/2023 2:45 PM	01:30:00	6.17 pH	23.45 °C	1,224.0 µS/cm	0.24 mg/L	2.63 NTU	-109.6 mV	54.60 ft	200.00 ml/min
8/22/2023 2:50 PM	01:35:00	6.16 pH	23.66 °C	1,222.5 µS/cm	0.25 mg/L	2.64 NTU	-111.7 mV	55.30 ft	200.00 ml/min
8/22/2023 2:55 PM	01:40:00	6.17 pH	23.61 °C	1,232.8 µS/cm	0.21 mg/L	3.09 NTU	-114.2 mV	56.40 ft	200.00 ml/min
8/22/2023 3:00 PM	01:45:00	6.18 pH	23.22 °C	1,225.6 µS/cm	0.20 mg/L	2.93 NTU	-116.3 mV	57.50 ft	200.00 ml/min
8/22/2023 3:05 PM	01:50:00	6.17 pH	23.56 °C	1,227.3 µS/cm	0.21 mg/L	3.85 NTU	-78.3 mV	58.70 ft	200.00 ml/min
8/22/2023 3:10 PM	01:55:00	6.16 pH	23.50 °C	1,229.3 µS/cm	0.21 mg/L	3.15 NTU	-81.0 mV	59.80 ft	200.00 ml/min
8/22/2023 3:15 PM	02:00:00	6.16 pH	23.41 °C	1,227.4 µS/cm	0.20 mg/L	3.02 NTU	-83.0 mV	60.80 ft	200.00 ml/min
8/22/2023 3:20 PM	02:05:00	6.16 pH	23.75 °C	1,224.6 µS/cm	0.21 mg/L	3.05 NTU	-83.8 mV	61.60 ft	200.00 ml/min
8/22/2023 3:25 PM	02:10:00	6.15 pH	23.90 °C	1,243.5 µS/cm	0.22 mg/L	2.96 NTU	-84.1 mV	62.10 ft	200.00 ml/min
8/22/2023 3:30 PM	02:15:00	6.16 pH	24.09 °C	1,227.8 µS/cm	0.22 mg/L	3.00 NTU	-82.4 mV	63.20 ft	200.00 ml/min
8/22/2023 3:35 PM	02:19:37	6.16 pH	24.69 °C	1,218.3 µS/cm	0.23 mg/L	3.16 NTU	-88.9 mV	63.90 ft	200.00 ml/min
8/22/2023 3:40 PM	02:24:37	6.16 pH	24.29 °C	1,218.0 µS/cm	0.23 mg/L	3.86 NTU	-124.3 mV	64.40 ft	200.00 ml/min
8/22/2023 3:45 PM	02:29:37	6.15 pH	24.01 °C	1,224.6 µS/cm	0.21 mg/L	3.21 NTU	-83.6 mV	65.00 ft	200.00 ml/min
8/22/2023 3:50 PM	02:34:37	6.13 pH	24.16 °C	1,238.3 µS/cm	0.26 mg/L	3.46 NTU	-84.8 mV	66.10 ft	200.00 ml/min
8/22/2023 3:55 PM	02:39:37	6.14 pH	24.32 °C	1,223.2 µS/cm	0.21 mg/L	3.28 NTU	-84.3 mV	67.00 ft	200.00 ml/min
8/22/2023 4:00 PM	02:44:37	6.13 pH	24.54 °C	1,233.9 µS/cm	0.21 mg/L	2.95 NTU	-127.9 mV	67.70 ft	200.00 ml/min
8/22/2023 4:05 PM	02:49:37	6.14 pH	24.12 °C	1,223.2 µS/cm	0.19 mg/L	3.06 NTU	-83.7 mV	68.90 ft	200.00 ml/min
8/22/2023 4:10 PM	02:54:37	6.13 pH	24.51 °C	1,234.6 µS/cm	0.20 mg/L	2.96 NTU	-86.2 mV	70.00 ft	200.00 ml/min
8/22/2023 4:15 PM	02:59:37	6.12 pH	24.44 °C	1,226.2 µS/cm	0.19 mg/L	3.63 NTU	-85.0 mV	71.90 ft	200.00 ml/min
8/22/2023 4:20 PM	03:04:37	6.12 pH	24.41 °C	1,235.0 µS/cm	0.20 mg/L	3.01 NTU	-85.4 mV	72.90 ft	200.00 ml/min
8/22/2023 4:25 PM	03:09:37	6.13 pH	24.32 °C	1,225.4 µS/cm	0.20 mg/L	2.97 NTU	-84.1 mV	73.90 ft	200.00 ml/min
8/22/2023 4:30 PM	03:14:37	6.13 pH	23.82 °C	1,225.3 µS/cm	0.21 mg/L	3.33 NTU	-129.0 mV	74.90 ft	200.00 ml/min
8/22/2023 4:35 PM	03:19:37	6.14 pH	23.65 °C	1,218.8 µS/cm	0.18 mg/L	3.07 NTU	-128.8 mV	76.00 ft	200.00 ml/min
8/22/2023 4:40 PM	03:24:37	6.14 pH	23.49 °C	1,229.7 µS/cm	0.17 mg/L	3.28 NTU	-83.8 mV	77.20 ft	200.00 ml/min
8/22/2023 4:45 PM	03:29:37	6.14 pH	23.16 °C	1,223.6 µS/cm	0.19 mg/L	2.96 NTU	-83.8 mV	78.40 ft	200.00 ml/min
8/22/2023 4:50 PM	03:34:37	6.15 pH	23.32 °C	1,220.2 µS/cm	0.19 mg/L	2.88 NTU	-82.8 mV	79.50 ft	200.00 ml/min

8/22/2023 4:55 PM	03:39:37	6.15 pH	23.22 °C	1,220.6 µS/cm	0.18 mg/L	2.94 NTU	-82.9 mV	80.40 ft	200.00 ml/min
8/22/2023 5:00 PM	03:44:37	6.15 pH	23.29 °C	1,221.4 µS/cm	0.19 mg/L	2.48 NTU	-83.0 mV	81.50 ft	200.00 ml/min
8/22/2023 5:05 PM	03:49:37	6.14 pH	23.37 °C	1,226.4 µS/cm	0.19 mg/L	2.38 NTU	-83.0 mV	82.90 ft	200.00 ml/min
8/22/2023 5:10 PM	03:54:37	6.15 pH	23.61 °C	1,221.2 µS/cm	0.19 mg/L	2.95 NTU	-82.3 mV	83.80 ft	200.00 ml/min
8/22/2023 5:15 PM	03:59:37	6.15 pH	23.87 °C	1,221.0 µS/cm	0.19 mg/L	3.01 NTU	-80.3 mV	84.60 ft	200.00 ml/min
8/22/2023 5:20 PM	04:04:37	6.14 pH	23.40 °C	1,219.0 µS/cm	0.18 mg/L	4.95 NTU	-79.5 mV	85.70 ft	200.00 ml/min
8/22/2023 5:25 PM	04:09:37	6.16 pH	23.26 °C	1,219.7 µS/cm	0.18 mg/L	6.78 NTU	-77.1 mV	86.80 ft	200.00 ml/min
8/22/2023 5:30 PM	04:14:37	6.16 pH	23.12 °C	1,218.9 µS/cm	0.20 mg/L	7.95 NTU	-119.5 mV	87.90 ft	200.00 ml/min
8/22/2023 5:35 PM	04:19:37	6.14 pH	23.68 °C	1,231.2 µS/cm	0.21 mg/L	7.48 NTU	-75.6 mV	88.70 ft	200.00 ml/min
8/22/2023 5:40 PM	04:24:37	6.15 pH	23.97 °C	1,223.0 µS/cm	0.24 mg/L	9.58 NTU	-72.7 mV	90.50 ft	200.00 ml/min
8/22/2023 5:45 PM	04:29:37	6.17 pH	23.03 °C	1,216.5 µS/cm	0.25 mg/L	11.30 NTU	-109.4 mV	92.40 ft	200.00 ml/min
8/22/2023 5:50 PM	04:34:37	6.17 pH	23.48 °C	1,214.7 µS/cm	0.28 mg/L	15.30 NTU	-64.3 mV	94.30 ft	200.00 ml/min
8/22/2023 5:55 PM	04:39:37	6.17 pH	23.00 °C	1,213.2 µS/cm	0.34 mg/L	18.40 NTU	-60.1 mV	96.20 ft	200.00 ml/min
8/22/2023 6:00 PM	04:44:37	6.18 pH	22.63 °C	1,213.6 µS/cm	0.50 mg/L	16.90 NTU	-54.3 mV	97.40 ft	200.00 ml/min
8/22/2023 6:05 PM	04:49:37	6.21 pH	22.38 °C	1,247.3 µS/cm	2.68 mg/L	19.40 NTU	-37.3 mV	99.40 ft	200.00 ml/min
8/22/2023 6:10 PM	04:54:37	6.23 pH	22.11 °C	1,216.3 µS/cm	3.05 mg/L	18.90 NTU	-32.2 mV	102.90 ft	200.00 ml/min
8/22/2023 6:15 PM	04:59:37	6.25 pH	22.04 °C	1,217.7 µS/cm	3.35 mg/L	34.00 NTU	-48.7 mV	104.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 12:15:03 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: PZ-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 99 ft Total Depth: 109 ft Initial Depth to Water: 66.81 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 104 ft Estimated Total Volume Pumped: 1.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 44 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1230. Sunny 80s. Ferrous Iron = 4.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 12:15 PM	00:00	6.24 pH	25.13 °C	1,093.0 µS/cm	4.13 mg/L	3.65 NTU	46.6 mV	66.81 ft	100.00 ml/min
8/23/2023 12:20 PM	05:00	6.10 pH	22.94 °C	1,059.9 µS/cm	0.77 mg/L	3.19 NTU	-22.4 mV	68.70 ft	100.00 ml/min
8/23/2023 12:25 PM	10:00	6.10 pH	22.77 °C	1,067.4 µS/cm	0.51 mg/L	3.09 NTU	-49.1 mV	69.70 ft	100.00 ml/min
8/23/2023 12:30 PM	15:00	6.09 pH	23.11 °C	1,069.1 µS/cm	0.56 mg/L	2.26 NTU	-29.3 mV	70.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:05:06 AM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: PZ-51D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 96 ft Total Depth: 106 ft Initial Depth to Water: 40.59 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 101 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 30 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1100. Sunny 80s. Ferrous Iron = 1.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:05 AM	00:00	6.75 pH	26.25 °C	626.81 µS/cm	2.72 mg/L	2.16 NTU	-32.9 mV	40.59 ft	100.00 ml/min
8/24/2023 10:10 AM	05:00	6.80 pH	24.94 °C	624.64 µS/cm	2.27 mg/L	3.52 NTU	-55.7 mV	40.90 ft	100.00 ml/min
8/24/2023 10:15 AM	10:00	6.81 pH	24.53 °C	636.54 µS/cm	1.51 mg/L	2.49 NTU	-101.4 mV	41.20 ft	100.00 ml/min
8/24/2023 10:20 AM	15:00	6.85 pH	24.33 °C	635.22 µS/cm	1.20 mg/L	2.14 NTU	-107.8 mV	41.50 ft	100.00 ml/min
8/24/2023 10:25 AM	20:00	6.92 pH	23.66 °C	629.11 µS/cm	1.44 mg/L	2.45 NTU	-114.0 mV	41.90 ft	100.00 ml/min
8/24/2023 10:30 AM	25:00	6.97 pH	22.40 °C	625.86 µS/cm	1.23 mg/L	2.42 NTU	-122.2 mV	42.20 ft	100.00 ml/min
8/24/2023 10:35 AM	30:00	6.98 pH	22.36 °C	625.73 µS/cm	0.78 mg/L	3.33 NTU	-129.3 mV	42.40 ft	100.00 ml/min
8/24/2023 10:40 AM	35:00	7.01 pH	22.34 °C	621.94 µS/cm	0.58 mg/L	3.24 NTU	-91.0 mV	42.90 ft	100.00 ml/min
8/24/2023 10:45 AM	40:00	7.03 pH	22.20 °C	622.82 µS/cm	0.45 mg/L	2.95 NTU	-141.5 mV	43.00 ft	100.00 ml/min
8/24/2023 10:50 AM	45:00	7.05 pH	22.28 °C	620.57 µS/cm	0.41 mg/L	3.47 NTU	-99.0 mV	43.00 ft	100.00 ml/min
8/24/2023 10:55 AM	50:00	7.06 pH	22.28 °C	619.54 µS/cm	0.38 mg/L	2.52 NTU	-97.4 mV	43.10 ft	100.00 ml/min
8/24/2023 11:00 AM	55:00	7.07 pH	22.38 °C	616.74 µS/cm	0.35 mg/L	2.78 NTU	-95.7 mV	43.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:10:07 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

Location Name: PZ-511 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55 ft Total Depth: 65 ft Initial Depth to Water: 38.36 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1500. Sunny 90s. FB-02 here at 1450. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:10 PM	00:00	6.11 pH	27.83 °C	1,195.6 µS/cm	0.94 mg/L	1.63 NTU	-47.0 mV	38.36 ft	150.00 ml/min
8/23/2023 2:15 PM	05:00	6.03 pH	23.99 °C	1,250.7 µS/cm	0.45 mg/L	1.52 NTU	-61.7 mV	39.20 ft	150.00 ml/min
8/23/2023 2:20 PM	10:00	5.71 pH	23.21 °C	1,300.3 µS/cm	0.33 mg/L	1.30 NTU	-93.0 mV	39.20 ft	150.00 ml/min
8/23/2023 2:25 PM	15:00	5.46 pH	22.95 °C	1,358.9 µS/cm	0.34 mg/L	1.01 NTU	-20.8 mV	39.20 ft	150.00 ml/min
8/23/2023 2:30 PM	20:00	5.39 pH	23.23 °C	1,371.4 µS/cm	0.33 mg/L	1.21 NTU	-7.5 mV	39.20 ft	150.00 ml/min
8/23/2023 2:35 PM	25:00	5.38 pH	23.28 °C	1,371.5 µS/cm	0.27 mg/L	1.26 NTU	-19.8 mV	39.20 ft	150.00 ml/min
8/23/2023 2:40 PM	30:00	5.38 pH	23.36 °C	1,367.7 µS/cm	0.24 mg/L	1.16 NTU	2.1 mV	39.20 ft	150.00 ml/min
8/23/2023 2:45 PM	35:00	5.37 pH	22.91 °C	1,373.5 µS/cm	0.25 mg/L	0.70 NTU	-9.6 mV	39.20 ft	150.00 ml/min
8/23/2023 2:50 PM	40:00	5.38 pH	22.61 °C	1,375.3 µS/cm	0.27 mg/L	0.54 NTU	5.2 mV	39.20 ft	150.00 ml/min
8/23/2023 2:55 PM	45:00	5.37 pH	22.67 °C	1,375.3 µS/cm	0.17 mg/L	0.46 NTU	-6.8 mV	39.20 ft	150.00 ml/min
8/23/2023 3:00 PM	50:00	5.37 pH	22.99 °C	1,368.6 µS/cm	0.16 mg/L	0.44 NTU	7.3 mV	39.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/21/2023 5:15:08 PM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: PZ-57I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 65.9 ft Total Depth: 75.9 ft Initial Depth to Water: 36.29 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 70.9 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4.32 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1755.

Sunny, 95 degrees F. Ferrous Iron = 1.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2023 5:15 PM	00:00	6.00 pH	30.62 °C	590.24 µS/cm	5.44 mg/L	4.01 NTU	110.1 mV	36.29 ft	150.00 ml/min
8/21/2023 5:20 PM	05:00	6.01 pH	23.30 °C	666.99 µS/cm	6.49 mg/L	3.65 NTU	66.2 mV	36.32 ft	150.00 ml/min
8/21/2023 5:25 PM	10:00	5.90 pH	22.86 °C	690.05 µS/cm	6.50 mg/L	2.97 NTU	59.5 mV	36.37 ft	150.00 ml/min
8/21/2023 5:30 PM	15:00	5.84 pH	22.75 °C	706.01 µS/cm	6.25 mg/L	2.72 NTU	56.3 mV	36.42 ft	150.00 ml/min
8/21/2023 5:35 PM	20:00	5.80 pH	22.80 °C	712.47 µS/cm	5.97 mg/L	2.71 NTU	53.7 mV	36.50 ft	150.00 ml/min
8/21/2023 5:40 PM	25:00	5.77 pH	22.86 °C	717.19 µS/cm	5.54 mg/L	2.70 NTU	52.6 mV	36.56 ft	150.00 ml/min
8/21/2023 5:45 PM	30:00	5.74 pH	22.85 °C	727.67 µS/cm	5.15 mg/L	2.66 NTU	52.0 mV	36.60 ft	150.00 ml/min
8/21/2023 5:50 PM	35:00	5.71 pH	22.76 °C	733.75 µS/cm	4.99 mg/L	2.56 NTU	51.2 mV	36.65 ft	150.00 ml/min
8/21/2023 5:55 PM	40:00	5.70 pH	22.82 °C	739.19 µS/cm	4.97 mg/L	2.59 NTU	50.7 mV	36.65 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:10:07 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-58I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.9 m Total Depth: 63.9 ft Initial Depth to Water: 38.42 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1510, fe2+=7.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:10 PM	00:00	4.73 pH	38.03 °C	1.03 µS/cm	6.47 mg/L	127.00 NTU	240.5 mV	38.42 ft	250.00 ml/min
8/23/2023 2:15 PM	05:00	4.60 pH	25.00 °C	845.39 µS/cm	0.37 mg/L	19.00 NTU	41.5 mV	38.50 ft	250.00 ml/min
8/23/2023 2:20 PM	10:00	4.22 pH	23.85 °C	902.51 µS/cm	0.21 mg/L	14.00 NTU	49.7 mV	38.50 ft	250.00 ml/min
8/23/2023 2:25 PM	15:00	4.06 pH	23.46 °C	929.83 µS/cm	0.16 mg/L	6.52 NTU	59.9 mV	38.50 ft	250.00 ml/min
8/23/2023 2:30 PM	20:00	4.04 pH	23.78 °C	936.61 µS/cm	0.14 mg/L	5.89 NTU	67.3 mV	38.50 ft	250.00 ml/min
8/23/2023 2:35 PM	25:00	4.02 pH	23.76 °C	942.89 µS/cm	0.12 mg/L	3.11 NTU	78.2 mV	38.50 ft	250.00 ml/min
8/23/2023 2:40 PM	30:00	4.02 pH	23.80 °C	948.89 µS/cm	0.11 mg/L	2.74 NTU	91.2 mV	38.50 ft	250.00 ml/min
8/23/2023 2:45 PM	35:00	4.01 pH	23.56 °C	949.53 µS/cm	0.10 mg/L	1.11 NTU	105.6 mV	38.50 ft	250.00 ml/min
8/23/2023 2:50 PM	40:00	4.00 pH	23.51 °C	950.75 µS/cm	0.09 mg/L	0.86 NTU	120.5 mV	38.50 ft	250.00 ml/min
8/23/2023 2:55 PM	45:00	3.99 pH	23.62 °C	958.84 µS/cm	0.08 mg/L	0.83 NTU	131.7 mV	38.50 ft	250.00 ml/min
8/23/2023 3:00 PM	50:00	3.99 pH	23.73 °C	953.37 µS/cm	0.08 mg/L	0.78 NTU	142.7 mV	38.50 ft	250.00 ml/min
8/23/2023 3:05 PM	55:00	3.99 pH	23.82 °C	960.18 µS/cm	0.07 mg/L	0.65 NTU	145.5 mV	38.50 ft	250.00 ml/min
8/23/2023 3:10 PM	01:00:00	3.99 pH	23.83 °C	953.43 µS/cm	0.07 mg/L	0.59 NTU	152.6 mV	38.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:50:24 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-59I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56 ft Total Depth: 66 ft Initial Depth to Water: 39.73 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 61 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1140, Fe2+=7.0mg\L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:50 AM	00:00	3.69 pH	35.92 °C	1,579.4 µS/cm	4.58 mg/L	36.00 NTU	219.0 mV	39.73 ft	200.00 ml/min
8/23/2023 10:55 AM	05:00	3.69 pH	25.10 °C	2,018.8 µS/cm	0.38 mg/L	29.00 NTU	180.8 mV	40.00 ft	200.00 ml/min
8/23/2023 11:00 AM	10:00	3.69 pH	24.35 °C	2,086.5 µS/cm	0.23 mg/L	15.00 NTU	186.3 mV	40.30 ft	200.00 ml/min
8/23/2023 11:05 AM	15:00	3.68 pH	24.27 °C	2,105.0 µS/cm	0.17 mg/L	9.47 NTU	179.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:10 AM	20:00	3.67 pH	24.22 °C	2,103.4 µS/cm	0.15 mg/L	6.82 NTU	177.3 mV	40.30 ft	200.00 ml/min
8/23/2023 11:15 AM	25:00	3.67 pH	24.36 °C	2,110.5 µS/cm	0.14 mg/L	4.84 NTU	176.4 mV	40.30 ft	200.00 ml/min
8/23/2023 11:20 AM	30:00	3.67 pH	24.45 °C	2,109.5 µS/cm	0.13 mg/L	2.03 NTU	185.8 mV	40.30 ft	200.00 ml/min
8/23/2023 11:25 AM	35:00	3.67 pH	24.61 °C	2,101.1 µS/cm	0.12 mg/L	2.83 NTU	185.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:30 AM	40:00	3.68 pH	24.68 °C	2,100.6 µS/cm	0.11 mg/L	2.46 NTU	184.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:35 AM	45:00	3.68 pH	24.52 °C	2,098.6 µS/cm	0.11 mg/L	1.73 NTU	182.8 mV	40.30 ft	200.00 ml/min
8/23/2023 11:40 AM	50:00	3.68 pH	24.34 °C	2,110.6 µS/cm	0.11 mg/L	1.93 NTU	181.5 mV	40.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 12:25:18 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

<p>Location Name: PZ-60I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 54.15 ft Total Depth: 64.15 ft Initial Depth to Water: 38.2 ft</p>	<p>Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 59 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 3 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 989619</p>
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Test Notes:

Sunny, sample time-1325. Fe2+=1.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 12:25 PM	00:00	4.76 pH	27.96 °C	1,552.8 µS/cm	0.53 mg/L	16.00 NTU	89.0 mV	38.20 ft	250.00 ml/min
8/23/2023 12:30 PM	05:00	4.63 pH	23.84 °C	1,641.2 µS/cm	0.28 mg/L	5.30 NTU	173.9 mV	38.40 ft	250.00 ml/min
8/23/2023 12:35 PM	10:00	4.60 pH	23.73 °C	1,687.1 µS/cm	0.20 mg/L	5.21 NTU	235.3 mV	38.40 ft	250.00 ml/min
8/23/2023 12:40 PM	15:00	4.62 pH	23.78 °C	1,649.8 µS/cm	0.16 mg/L	3.98 NTU	303.6 mV	38.40 ft	250.00 ml/min
8/23/2023 12:45 PM	20:00	4.62 pH	23.55 °C	1,630.6 µS/cm	0.13 mg/L	3.51 NTU	333.2 mV	38.40 ft	250.00 ml/min
8/23/2023 12:50 PM	25:00	4.61 pH	23.15 °C	1,634.4 µS/cm	0.11 mg/L	3.58 NTU	342.4 mV	38.40 ft	250.00 ml/min
8/23/2023 12:55 PM	30:00	4.61 pH	22.97 °C	1,632.5 µS/cm	0.10 mg/L	3.38 NTU	299.3 mV	38.40 ft	250.00 ml/min
8/23/2023 1:00 PM	35:00	4.60 pH	23.53 °C	1,629.0 µS/cm	0.09 mg/L	3.06 NTU	347.8 mV	38.40 ft	250.00 ml/min
8/23/2023 1:05 PM	40:00	4.60 pH	23.33 °C	1,628.3 µS/cm	0.08 mg/L	2.70 NTU	303.2 mV	38.40 ft	250.00 ml/min
8/23/2023 1:10 PM	45:00	4.59 pH	23.19 °C	1,623.9 µS/cm	0.07 mg/L	2.55 NTU	350.2 mV	38.40 ft	250.00 ml/min
8/23/2023 1:15 PM	50:00	4.59 pH	23.23 °C	1,625.4 µS/cm	0.07 mg/L	2.47 NTU	301.6 mV	38.40 ft	250.00 ml/min
8/23/2023 1:20 PM	55:00	4.59 pH	22.96 °C	1,617.5 µS/cm	0.06 mg/L	2.33 NTU	307.8 mV	38.40 ft	250.00 ml/min
8/23/2023 1:25 PM	01:00:00	4.58 pH	23.10 °C	1,616.8 µS/cm	0.05 mg/L	2.22 NTU	360.4 mV	38.40 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 3:30:06 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-611 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66 ft Total Depth: 76 ft Initial Depth to Water: 47.97 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 6.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1615. Ferrous Iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 3:30 PM	00:00	7.05 pH	49.25 °C	5.81 µS/cm	4.98 mg/L	23.00 NTU	207.2 mV	47.97 ft	150.00 ml/min
8/22/2023 3:35 PM	05:00	5.26 pH	28.64 °C	1,287.8 µS/cm	0.88 mg/L	6.56 NTU	20.8 mV	48.30 ft	150.00 ml/min
8/22/2023 3:40 PM	10:00	5.20 pH	26.13 °C	1,344.7 µS/cm	0.39 mg/L	5.18 NTU	9.4 mV	48.40 ft	150.00 ml/min
8/22/2023 3:45 PM	15:00	5.18 pH	25.18 °C	1,357.5 µS/cm	0.28 mg/L	3.39 NTU	13.7 mV	48.40 ft	150.00 ml/min
8/22/2023 3:50 PM	20:00	5.17 pH	25.14 °C	1,372.1 µS/cm	0.23 mg/L	3.54 NTU	21.2 mV	48.40 ft	150.00 ml/min
8/22/2023 3:55 PM	25:00	5.17 pH	24.99 °C	1,379.9 µS/cm	0.20 mg/L	3.19 NTU	21.0 mV	48.40 ft	150.00 ml/min
8/22/2023 4:00 PM	30:00	5.17 pH	24.91 °C	1,364.0 µS/cm	0.17 mg/L	2.73 NTU	22.6 mV	48.40 ft	150.00 ml/min
8/22/2023 4:05 PM	35:00	5.17 pH	24.54 °C	1,364.5 µS/cm	0.15 mg/L	2.58 NTU	27.1 mV	48.40 ft	150.00 ml/min
8/22/2023 4:10 PM	40:00	5.16 pH	24.29 °C	1,377.2 µS/cm	0.14 mg/L	2.43 NTU	29.0 mV	48.40 ft	150.00 ml/min
8/22/2023 4:15 PM	45:00	5.16 pH	24.19 °C	1,377.1 µS/cm	0.13 mg/L	1.68 NTU	28.4 mV	48.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 4:00:09 PM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-63I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.5 ft Total Depth: 56.5 ft Initial Depth to Water: 39.46 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 51 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1630, Fe2+=1.5 mg/L. Dup-02 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 4:00 PM	00:00	4.15 pH	39.28 °C	0.39 µS/cm	6.21 mg/L	2.64 NTU	181.1 mV	39.46 ft	250.00 ml/min
8/23/2023 4:05 PM	05:00	5.89 pH	24.28 °C	367.26 µS/cm	0.20 mg/L	1.02 NTU	-35.6 mV	40.20 ft	250.00 ml/min
8/23/2023 4:10 PM	10:00	5.85 pH	22.54 °C	384.90 µS/cm	0.14 mg/L	0.59 NTU	-31.3 mV	40.30 ft	250.00 ml/min
8/23/2023 4:15 PM	15:00	5.76 pH	22.30 °C	388.89 µS/cm	0.11 mg/L	0.49 NTU	-26.9 mV	40.30 ft	250.00 ml/min
8/23/2023 4:20 PM	20:00	5.69 pH	21.98 °C	389.72 µS/cm	0.09 mg/L	0.47 NTU	-23.6 mV	40.30 ft	250.00 ml/min
8/23/2023 4:25 PM	25:00	5.68 pH	21.99 °C	387.37 µS/cm	0.08 mg/L	0.56 NTU	-16.9 mV	40.30 ft	250.00 ml/min
8/23/2023 4:30 PM	30:00	5.68 pH	21.90 °C	387.52 µS/cm	0.07 mg/L	0.40 NTU	-13.7 mV	40.30 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:00:15 AM

Project: Plant Branch Ash Ponds

Operator Name: Hunter Auld

Location Name: PZ-64I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.5 ft Total Depth: 71.58 ft Initial Depth to Water: 38.42 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 39.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sampled at 1055. Clear 80s. Ferrous iron = 1.75 mg/L. EB-04 here at 1135.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:00 AM	00:00	8.62 pH	29.77 °C	1.80 µS/cm	7.50 mg/L	5.00 NTU	86.1 mV	38.42 ft	140.00 ml/min
8/23/2023 10:05 AM	05:00	5.64 pH	24.17 °C	3,200.8 µS/cm	0.72 mg/L	11.30 NTU	27.9 mV	38.80 ft	140.00 ml/min
8/23/2023 10:10 AM	10:00	5.58 pH	23.23 °C	3,224.2 µS/cm	0.36 mg/L	5.20 NTU	2.7 mV	40.10 ft	140.00 ml/min
8/23/2023 10:15 AM	15:00	5.58 pH	23.12 °C	3,217.7 µS/cm	0.28 mg/L	3.90 NTU	4.9 mV	40.70 ft	100.00 ml/min
8/23/2023 10:20 AM	20:00	5.53 pH	23.33 °C	3,209.2 µS/cm	0.26 mg/L	3.10 NTU	3.0 mV	40.80 ft	100.00 ml/min
8/23/2023 10:25 AM	25:00	5.49 pH	23.39 °C	3,208.9 µS/cm	0.23 mg/L	3.20 NTU	3.0 mV	41.10 ft	100.00 ml/min
8/23/2023 10:30 AM	30:00	5.45 pH	23.39 °C	3,212.4 µS/cm	0.21 mg/L	3.10 NTU	-13.9 mV	41.50 ft	100.00 ml/min
8/23/2023 10:35 AM	35:00	5.41 pH	23.40 °C	3,212.8 µS/cm	0.19 mg/L	2.20 NTU	5.4 mV	41.80 ft	100.00 ml/min
8/23/2023 10:40 AM	40:00	5.38 pH	23.82 °C	3,220.2 µS/cm	0.20 mg/L	2.20 NTU	4.7 mV	41.70 ft	75.00 ml/min
8/23/2023 10:45 AM	45:00	5.27 pH	24.30 °C	3,239.3 µS/cm	0.20 mg/L	2.20 NTU	18.9 mV	41.70 ft	75.00 ml/min
8/23/2023 10:50 AM	50:00	5.23 pH	24.36 °C	3,253.4 µS/cm	0.20 mg/L	2.00 NTU	31.1 mV	41.70 ft	75.00 ml/min
8/23/2023 10:55 AM	55:00	5.21 pH	24.52 °C	3,250.8 µS/cm	0.19 mg/L	1.50 NTU	35.1 mV	41.70 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/21/2023 4:35:22 PM

Project: Plant Branch Ash Ponds

Operator Name: A. Schnittker

<p>Location Name: PZ-65I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.2 ft Total Depth: 72.2 ft Initial Depth to Water: 36.08 ft</p>	<p>Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 8.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 23 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 728623</p>
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Test Notes:

Sample time 1745. Sunny 90s. Ferrous Iron = 5.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2023 4:35 PM	00:00	3.00 pH	38.78 °C	1,979.9 µS/cm	2.51 mg/L	14.50 NTU	392.0 mV	36.08 ft	125.00 ml/min
8/21/2023 4:40 PM	05:00	3.00 pH	33.86 °C	2,025.4 µS/cm	1.35 mg/L	11.60 NTU	388.8 mV	36.70 ft	125.00 ml/min
8/21/2023 4:45 PM	10:00	3.03 pH	27.99 °C	2,064.6 µS/cm	0.52 mg/L	13.10 NTU	385.2 mV	37.20 ft	125.00 ml/min
8/21/2023 4:50 PM	15:00	3.05 pH	26.93 °C	2,072.2 µS/cm	0.34 mg/L	11.20 NTU	382.6 mV	37.40 ft	125.00 ml/min
8/21/2023 4:55 PM	20:00	3.11 pH	27.21 °C	2,048.0 µS/cm	0.31 mg/L	11.30 NTU	375.1 mV	37.60 ft	125.00 ml/min
8/21/2023 5:00 PM	25:00	3.11 pH	27.02 °C	2,050.1 µS/cm	0.27 mg/L	8.46 NTU	376.8 mV	37.80 ft	125.00 ml/min
8/21/2023 5:05 PM	30:00	3.26 pH	26.83 °C	2,016.0 µS/cm	0.24 mg/L	6.93 NTU	360.3 mV	38.00 ft	125.00 ml/min
8/21/2023 5:10 PM	35:00	3.60 pH	27.66 °C	1,984.8 µS/cm	0.25 mg/L	4.91 NTU	326.0 mV	38.00 ft	125.00 ml/min
8/21/2023 5:15 PM	40:00	3.82 pH	29.89 °C	1,951.5 µS/cm	0.30 mg/L	2.99 NTU	297.6 mV	38.00 ft	125.00 ml/min
8/21/2023 5:20 PM	45:00	4.08 pH	29.79 °C	1,911.1 µS/cm	0.30 mg/L	2.44 NTU	262.0 mV	38.00 ft	125.00 ml/min
8/21/2023 5:25 PM	50:00	4.15 pH	28.83 °C	1,909.0 µS/cm	0.25 mg/L	1.96 NTU	245.9 mV	38.00 ft	125.00 ml/min
8/21/2023 5:30 PM	55:00	4.18 pH	28.68 °C	1,914.9 µS/cm	0.22 mg/L	1.83 NTU	232.6 mV	38.00 ft	125.00 ml/min
8/21/2023 5:35 PM	01:00:00	4.20 pH	28.55 °C	1,920.8 µS/cm	0.22 mg/L	2.70 NTU	224.1 mV	38.00 ft	125.00 ml/min
8/21/2023 5:40 PM	01:05:00	4.23 pH	28.19 °C	1,920.7 µS/cm	0.20 mg/L	2.48 NTU	221.5 mV	38.00 ft	125.00 ml/min

8/21/2023 5:45 PM	01:10:00	4.23 pH	27.97 °C	1,925.4 μS/cm	0.20 mg/L	2.45 NTU	211.5 mV	38.00 ft	125.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:23:45 PM

Project: Plant Branch Ash Ponds

Operator Name: Hunter Auld

Location Name: PZ-68D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 76.9 ft Total Depth: 86.9 ft Initial Depth to Water: 40.83 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 81 ft Estimated Total Volume Pumped: 10.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 80 ml/min Final Draw Down: 188 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sampled at 1605. Partly cloudy 90s. Ferrous iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:23 PM	00:00	7.05 pH	36.46 °C	782.94 µS/cm	2.98 mg/L	5.00 NTU	-2.5 mV	40.83 ft	100.00 ml/min
8/23/2023 2:28 PM	05:00	7.26 pH	33.22 °C	780.12 µS/cm	2.44 mg/L	2.80 NTU	-46.9 mV	40.60 ft	100.00 ml/min
8/23/2023 2:33 PM	10:00	7.32 pH	28.83 °C	776.26 µS/cm	1.14 mg/L	1.50 NTU	-89.1 mV	40.60 ft	100.00 ml/min
8/23/2023 2:38 PM	15:00	7.33 pH	26.42 °C	771.04 µS/cm	0.57 mg/L	1.70 NTU	-99.3 mV	41.60 ft	100.00 ml/min
8/23/2023 2:43 PM	20:00	7.31 pH	29.51 °C	764.75 µS/cm	0.72 mg/L	1.70 NTU	-103.5 mV	41.60 ft	100.00 ml/min
8/23/2023 2:48 PM	25:00	7.35 pH	26.65 °C	765.79 µS/cm	0.58 mg/L	1.60 NTU	-101.3 mV	42.00 ft	120.00 ml/min
8/23/2023 2:53 PM	30:00	7.37 pH	24.11 °C	759.08 µS/cm	0.34 mg/L	1.50 NTU	-133.7 mV	43.00 ft	120.00 ml/min
8/23/2023 2:58 PM	35:00	7.38 pH	23.89 °C	752.54 µS/cm	0.28 mg/L	1.90 NTU	-103.4 mV	43.90 ft	120.00 ml/min
8/23/2023 3:03 PM	40:00	7.35 pH	25.01 °C	755.07 µS/cm	0.29 mg/L	1.70 NTU	-136.1 mV	44.80 ft	120.00 ml/min
8/23/2023 3:08 PM	45:00	7.37 pH	24.88 °C	748.09 µS/cm	0.25 mg/L	1.70 NTU	-136.2 mV	45.10 ft	120.00 ml/min
8/23/2023 3:13 PM	50:00	7.38 pH	24.02 °C	741.14 µS/cm	0.19 mg/L	1.60 NTU	-101.1 mV	45.90 ft	120.00 ml/min
8/23/2023 3:18 PM	55:00	7.37 pH	24.93 °C	740.44 µS/cm	0.20 mg/L	1.60 NTU	-138.1 mV	46.50 ft	100.00 ml/min
8/23/2023 3:23 PM	01:00:00	7.37 pH	26.17 °C	740.95 µS/cm	0.23 mg/L	1.50 NTU	-103.3 mV	47.50 ft	150.00 ml/min
8/23/2023 3:28 PM	01:05:00	7.40 pH	22.77 °C	736.57 µS/cm	0.14 mg/L	1.60 NTU	-97.9 mV	48.30 ft	150.00 ml/min
8/23/2023 3:33 PM	01:10:00	7.41 pH	22.54 °C	738.42 µS/cm	0.13 mg/L	1.80 NTU	-97.8 mV	50.30 ft	150.00 ml/min

8/23/2023 3:38 PM	01:15:00	7.41 pH	22.54 °C	747.28 µS/cm	0.12 mg/L	1.60 NTU	-97.6 mV	51.00 ft	150.00 ml/min
8/23/2023 3:43 PM	01:20:00	7.42 pH	22.27 °C	738.94 µS/cm	0.14 mg/L	1.50 NTU	-95.8 mV	52.50 ft	240.00 ml/min
8/23/2023 3:48 PM	01:25:00	7.43 pH	21.53 °C	743.65 µS/cm	0.45 mg/L	2.30 NTU	-123.1 mV	54.00 ft	240.00 ml/min
8/23/2023 3:53 PM	01:30:00	7.43 pH	21.35 °C	742.03 µS/cm	0.43 mg/L	2.00 NTU	-119.9 mV	55.60 ft	240.00 ml/min
8/23/2023 3:58 PM	01:35:00	7.40 pH	23.57 °C	747.56 µS/cm	0.49 mg/L	2.40 NTU	-118.5 mV	56.30 ft	80.00 ml/min
8/23/2023 4:03 PM	01:40:00	7.41 pH	23.16 °C	749.22 µS/cm	0.42 mg/L	1.80 NTU	-81.8 mV	56.40 ft	80.00 ml/min
8/23/2023 4:08 PM	01:45:00	7.41 pH	22.54 °C	774.94 µS/cm	0.18 mg/L	1.60 NTU	-136.1 mV	56.50 ft	80.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 1:40:04 PM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: PZ-74I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 40.94 ft Total Depth: 50.94 ft Initial Depth to Water: 28.13 ft	Pump Type: Peri. Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 45.94 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.72 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1415.

Sunny, 92 degrees F. Ferrous Iron = 1.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 1:40 PM	00:00	5.88 pH	34.68 °C	523.00 µS/cm	1.51 mg/L	9.92 NTU	88.9 mV	28.13 ft	200.00 ml/min
8/24/2023 1:45 PM	05:00	5.89 pH	24.83 °C	586.20 µS/cm	1.13 mg/L	15.00 NTU	90.5 mV	28.21 ft	200.00 ml/min
8/24/2023 1:50 PM	10:00	5.90 pH	24.00 °C	592.41 µS/cm	1.04 mg/L	10.90 NTU	90.6 mV	28.39 ft	200.00 ml/min
8/24/2023 1:55 PM	15:00	5.91 pH	23.54 °C	592.32 µS/cm	1.12 mg/L	10.20 NTU	90.4 mV	28.41 ft	200.00 ml/min
8/24/2023 2:00 PM	20:00	5.90 pH	23.34 °C	596.25 µS/cm	1.24 mg/L	5.34 NTU	90.5 mV	28.43 ft	200.00 ml/min
8/24/2023 2:05 PM	25:00	5.89 pH	23.34 °C	597.37 µS/cm	1.38 mg/L	4.27 NTU	90.8 mV	28.44 ft	200.00 ml/min
8/24/2023 2:10 PM	30:00	5.89 pH	23.25 °C	596.84 µS/cm	1.47 mg/L	2.79 NTU	91.6 mV	28.44 ft	200.00 ml/min
8/24/2023 2:15 PM	35:00	5.89 pH	23.25 °C	595.16 µS/cm	1.45 mg/L	2.24 NTU	92.6 mV	28.44 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:21:49 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-75I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.55 ft Total Depth: 30.55 ft Initial Depth to Water: 17.88 ft	Pump Type: Peri pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sunny, sample time-1051 Fe2+= 0.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:21 AM	00:00	5.82 pH	24.19 °C	362.85 µS/cm	2.19 mg/L	26.00 NTU	134.7 mV	17.88 ft	200.00 ml/min
8/24/2023 10:26 AM	05:00	5.79 pH	21.63 °C	377.10 µS/cm	1.91 mg/L	17.00 NTU	142.2 mV	18.00 ft	200.00 ml/min
8/24/2023 10:31 AM	10:00	5.76 pH	21.00 °C	369.67 µS/cm	2.06 mg/L	12.00 NTU	133.3 mV	18.00 ft	200.00 ml/min
8/24/2023 10:36 AM	15:00	5.76 pH	21.20 °C	365.97 µS/cm	2.40 mg/L	6.86 NTU	125.7 mV	18.00 ft	200.00 ml/min
8/24/2023 10:41 AM	20:00	5.76 pH	21.18 °C	360.61 µS/cm	2.44 mg/L	6.42 NTU	100.2 mV	18.00 ft	200.00 ml/min
8/24/2023 10:46 AM	25:00	5.77 pH	21.10 °C	364.35 µS/cm	2.38 mg/L	4.69 NTU	109.1 mV	18.00 ft	200.00 ml/min
8/24/2023 10:51 AM	30:00	5.76 pH	21.03 °C	359.27 µS/cm	2.47 mg/L	4.71 NTU	95.6 mV	18.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:47:09 AM

Project: Plant Branch Ash Ponds

Operator Name: D. Johnson

Location Name: PZ-76I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.02 ft Total Depth: 44.02 ft Initial Depth to Water: 19.49 ft	Pump Type: Peri. Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 39.02 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 15.36 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sample time 1037.

Sunny, 82 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 9:47 AM	00:00	5.80 pH	28.62 °C	345.74 µS/cm	3.74 mg/L	9.65 NTU	139.7 mV	19.49 ft	200.00 ml/min
8/23/2023 9:52 AM	05:00	5.70 pH	22.85 °C	341.39 µS/cm	0.27 mg/L	7.08 NTU	101.6 mV	20.52 ft	200.00 ml/min
8/23/2023 9:57 AM	10:00	5.72 pH	22.98 °C	341.10 µS/cm	0.23 mg/L	6.45 NTU	95.7 mV	20.61 ft	200.00 ml/min
8/23/2023 10:02 AM	15:00	5.72 pH	22.76 °C	337.80 µS/cm	0.20 mg/L	6.44 NTU	92.4 mV	20.69 ft	200.00 ml/min
8/23/2023 10:07 AM	20:00	5.71 pH	22.71 °C	335.94 µS/cm	0.18 mg/L	9.09 NTU	90.6 mV	20.73 ft	200.00 ml/min
8/23/2023 10:12 AM	25:00	5.71 pH	22.71 °C	336.94 µS/cm	0.16 mg/L	6.84 NTU	89.1 mV	20.74 ft	200.00 ml/min
8/23/2023 10:17 AM	30:00	5.71 pH	22.73 °C	336.08 µS/cm	0.15 mg/L	6.14 NTU	88.0 mV	20.76 ft	200.00 ml/min
8/23/2023 10:22 AM	35:00	5.71 pH	22.76 °C	337.54 µS/cm	0.15 mg/L	6.05 NTU	87.1 mV	20.76 ft	200.00 ml/min
8/23/2023 10:27 AM	40:00	5.71 pH	22.71 °C	336.87 µS/cm	0.14 mg/L	4.85 NTU	86.5 mV	20.77 ft	200.00 ml/min
8/23/2023 10:32 AM	45:00	5.70 pH	22.73 °C	336.07 µS/cm	0.14 mg/L	4.46 NTU	86.2 mV	20.77 ft	200.00 ml/min
8/23/2023 10:37 AM	50:00	5.71 pH	22.81 °C	335.90 µS/cm	0.13 mg/L	4.20 NTU	85.7 mV	20.77 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:51:03 AM

Project: Plant Branch Ash Ponds

Operator Name: Taylor Goble

Location Name: PZ-77I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.2 ft Total Depth: 43.2 ft Initial Depth to Water: 18.71 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 7100 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1026. Clear 84 degrees. Ferrous Iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/23/2023 9:51 AM	00:00	6.46 pH	25.05 °C	704.30 µS/cm	1.09 mg/L	5.45 NTU	139.3 mV	19.05 ft	200.00 ml/min
8/23/2023 9:51 AM	00:30	6.29 pH	24.51 °C	705.99 µS/cm	0.87 mg/L	5.38 NTU	138.3 mV	19.21 ft	200.00 ml/min
8/23/2023 9:56 AM	05:30	5.53 pH	22.80 °C	715.49 µS/cm	0.30 mg/L	4.97 NTU	135.5 mV	19.48 ft	200.00 ml/min
8/23/2023 10:01 AM	10:30	5.41 pH	22.48 °C	717.25 µS/cm	0.21 mg/L	3.86 NTU	134.8 mV	19.72 ft	200.00 ml/min
8/23/2023 10:06 AM	15:30	5.39 pH	22.36 °C	710.97 µS/cm	0.17 mg/L	3.33 NTU	134.4 mV	19.77 ft	200.00 ml/min
8/23/2023 10:11 AM	20:30	5.39 pH	22.36 °C	706.27 µS/cm	0.16 mg/L	2.78 NTU	133.8 mV	19.83 ft	200.00 ml/min
8/23/2023 10:16 AM	25:30	5.39 pH	22.48 °C	682.56 µS/cm	0.14 mg/L	3.20 NTU	133.8 mV	19.86 ft	200.00 ml/min
8/23/2023 10:21 AM	30:30	5.39 pH	22.49 °C	669.20 µS/cm	0.14 mg/L	3.37 NTU	133.2 mV	19.88 ft	200.00 ml/min
8/23/2023 10:26 AM	35:30	5.39 pH	22.39 °C	673.46 µS/cm	0.13 mg/L	3.21 NTU	133.0 mV	19.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:36:52 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-79 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.3 ft Total Depth: 19.3 ft Initial Depth to Water: 13.7 ft	Pump Type: Peri pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 6.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 63 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Well purged dry, allow for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 11:36 AM	00:00	6.63 pH	36.80 °C	0.00 µS/cm	6.08 mg/L	9.47 NTU	72.1 mV	13.70 ft	100.00 ml/min
8/22/2023 11:41 AM	05:00	7.12 pH	27.02 °C	884.79 µS/cm	2.29 mg/L	5.91 NTU	122.3 mV	14.70 ft	100.00 ml/min
8/22/2023 11:46 AM	10:00	7.42 pH	22.74 °C	955.53 µS/cm	2.50 mg/L	6.44 NTU	119.8 mV	15.10 ft	100.00 ml/min
8/22/2023 11:51 AM	15:00	7.49 pH	22.34 °C	938.06 µS/cm	2.52 mg/L	7.70 NTU	117.7 mV	15.50 ft	100.00 ml/min
8/22/2023 11:56 AM	20:00	7.53 pH	22.20 °C	935.60 µS/cm	2.47 mg/L	13.00 NTU	117.8 mV	15.90 ft	100.00 ml/min
8/22/2023 12:01 PM	25:00	7.57 pH	22.34 °C	939.45 µS/cm	2.55 mg/L	37.00 NTU	115.7 mV	16.40 ft	100.00 ml/min
8/22/2023 12:06 PM	30:00	7.56 pH	22.10 °C	943.21 µS/cm	2.16 mg/L	55.00 NTU	115.9 mV	16.80 ft	150.00 ml/min
8/22/2023 12:11 PM	35:00	7.48 pH	22.25 °C	939.12 µS/cm	1.57 mg/L	104.00 NTU	99.7 mV	17.30 ft	150.00 ml/min
8/22/2023 12:16 PM	40:00	7.42 pH	22.25 °C	947.31 µS/cm	0.85 mg/L	159.00 NTU	78.0 mV	17.70 ft	150.00 ml/min
8/22/2023 12:21 PM	45:00	7.39 pH	22.25 °C	953.65 µS/cm	0.33 mg/L	232.00 NTU	56.3 mV	18.30 ft	150.00 ml/min
8/22/2023 12:26 PM	50:00	7.41 pH	22.16 °C	962.98 µS/cm	0.97 mg/L	255.00 NTU	34.4 mV	18.70 ft	150.00 ml/min
8/22/2023 12:31 PM	55:00	7.61 pH	25.34 °C	997.90 µS/cm	4.04 mg/L	2.61 NTU	-37.3 mV	19.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:50:46 AM

Project: Plant Branch Ash Ponds

Operator Name: J. Berisford

Location Name: PZ-79 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.3 ft Total Depth: 19.3 ft Initial Depth to Water: 13.33 ft	Pump Type: Peri pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 2 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.37 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Allowed overnight recharge. Sunny, sample time-1010. Ferrous Iron = 0.75 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 9:50 AM	00:00	7.22 pH	37.43 °C	8.61 µS/cm	6.52 mg/L	4.17 NTU	235.2 mV	13.33 ft	100.00 ml/min
8/23/2023 9:55 AM	05:00	7.36 pH	25.79 °C	886.44 µS/cm	4.08 mg/L	1.51 NTU	125.0 mV	13.90 ft	100.00 ml/min
8/23/2023 10:00 AM	10:00	7.50 pH	24.39 °C	900.64 µS/cm	4.04 mg/L	2.45 NTU	125.9 mV	14.10 ft	100.00 ml/min
8/23/2023 10:05 AM	15:00	7.53 pH	24.07 °C	900.95 µS/cm	3.94 mg/L	2.13 NTU	120.0 mV	14.40 ft	100.00 ml/min
8/23/2023 10:10 AM	20:00	7.55 pH	24.02 °C	909.01 µS/cm	3.94 mg/L	2.46 NTU	105.9 mV	14.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Plant Branch Surface Water Samples 08/23/2023

Sample ID	Total Depth (ft)	Sample Depth (ft)	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
BRA-LR-1(surface)	25.4	Surface	1100	31.10	7.01	119.2	5.40	4.98	0.087	33.178603, -83.317692
BRA-LR-1(mid)		12.0	1103	31.00	6.92	123.9	5.20	5.16	0.086	
BRA-LR-1(bottom)		25.0	1106	31.00	6.90	126.2	5.22	5.61	0.086	
BRA-LS+3A(surface)	4.3	Surface	1054	31.70	7.19	119.0	6.94	2.46	0.086	33.185681, -83.311205
BRA-LS+3(surface)	13.8	Surface	1048	31.40	7.16	107.7	6.72	3.02	0.085	33.185457, -83.311869
BRA-LS+3(mid)		7.0	1052	31.20	7.07	115.4	6.66	2.98	0.084	
BRA-LR+8A(surface)	9.2	Surface	1135	31.38	7.15	98.7	6.09	3.03	0.082	33.188793, -83.298479
BRA-LR+9A(surface)	3.4	Surface	1140	31.50	7.01	109.1	6.64	2.20	0.082	33.190136, -83.297139
BRA-LR+8(surface)	27.3	Surface	1036	31.16	6.98	118.4	5.77	4.18	0.084	33.187322, -83.296928
BRA-LR+8(mid)		13.0	1038	31.11	6.95	123.8	5.75	4.04	0.083	
BRA-LR+8(bottom)		27.0	1041	31.11	6.96	125.1	5.74	4.12	0.083	
BRA-LR+9(surface)	35.3	Surface	1029	31.11	6.95	124.4	5.54	3.38	0.082	33.189500, -83.295199
BRA-LR+9(mid)		17.0	1032	31.11	6.94	126.8	5.63	3.34	0.082	
BRA-LR+9(bottom)		35.0	1035	31.11	6.95	128.2	5.53	3.35	0.082	
BRA-LR-10(surface)	19.3	Surface	1011	31.11	7.02	113.0	5.67	3.64	0.081	33.188519, -83.284506
BRA-LR-10(mid)		9.0	1014	30.55	6.98	118.0	5.71	3.89	0.081	
BRA-LR-10(bottom)		19.0	1019	29.94	6.99	119.2	5.69	3.92	0.081	

Staff

SB/As/HA/DJ/TG

Date

8/2/23

Time (start/finish)

1120 / 1730

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	TD
PZ-44	27.66	57.0 91.	46.6	56.6	10.0	NA	Downgradient B	N	59.54
PZ-50D	38.42	106.0	96.02	106.02	10.0	NA	Downgradient	N	110.20
PZ-51S	38.25	45.4	40	45	5.0	NA	Downgradient B	N	47.97
PZ-51I	38.38	65.0	54.9	64.9	10.0	NA	Downgradient B	N	68.02
PZ-51D	38.11	106.0	96.02	106.02	10.0	NA	Downgradient B	N	109.88
PZ-57I	36.29	75.9	65.58	75.58	10.0	NA	Downgradient B	N	
PZ-58I	38.39	63.9	53.6	63.6	10.0	NA	Downgradient B	N	66.92
PZ-59I	39.75	66.0	56.4	66.4	10.0	NA	Downgradient B	N	64.80
PZ-60I	38.14	60.8	50.43	60.43	10.0	NA	Downgradient B	N 64.07	77.96
PZ-61I	47.95	76.0	65.77	75.77	10.0	NA	Downgradient B	N	77.96
PZ-62I	39.17	70.0	60	70	10.0	NA	Downgradient B	N	
PZ-63I	39.47	56.5	46.5	56.5	10.0	NA	Downgradient B	N	
PZ-64I	38.53	69.3	58.75	68.75	10.0	PZ-64	Downgradient B	N	71.54
PZ-65I	36.08	69.3	58.75	68.75	10.0	PZ-65	Downgradient B	N	72.26
PZ-66I	35.75	68.3	57.75	67.75	10.0	PZ-66	Downgradient B	N	
PZ-68D	46.85	84.3	73.75	83.75	10.0	PZ-68	Downgradient D	N	87.0

Staff

DB/HA/AS/DJ/TG

Date

8/21/23

Time (start/finish)

1120 / 1730

TP

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient BCD & E	Y
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ -2I	Upgradient BCD & E	Y
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient BCD & E	Y
BRGWA-5I	12.85	61.2	50.8	60.8	10.0	PZ-5I	Upgradient BCD & E	Y
BRGWA-6S	26.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient BCD & E	Y
BRGWA-23S	38.69	40.8	30.8	40.8	10.0	PZ-23S	Upgradient BCD	Y
BRGWC-25I	11.08	20.5	10.5	20.5	10.0	PZ-25I	Downgradient B	Y
BRGWC-27I	10.98	24.0	14	24	10.0	PZ-27S	Downgradient C	Y
BRGWC-29I	10.88	20.0	10	20	10.0	PZ-29I	Downgradient C	Y
BRGWC-30I	4.88	20.3	10	20	10.0	PZ-30I	Downgradient D	Y
BRGWC-32S	40.50	45.0	35	45	10.0	PZ-32S	Downgradient D	Y
BRGWC-45	15.20	57.0	46.6	56.6	10.0	PZ-45	Downgradient B	Y
BRGWC-47	27.42	92.0	81.6	91.6	10.0	PZ-47	Downgradient D	Y
BRGWC-50	38.23	65.0	54.6	64.6	10.0	PZ-50	Downgradient B	Y
BRGWC-52I	39.68	73.9	63.9	73.9	10.0	PZ-52	Downgradient B	

48.35

Staff

SR/HA/AS/TG/DS

Date

8/21/23

Time (start/finish)

1120 / 1730

PZs, IWs

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
<u>IWs</u>								
IW-B-1	22.42	40.2	4.9	39.9	35.0	NA	NA	
IW-B-2	9.00	16.3	6	16	10.0	NA	NA	N
IW-B-3	17.74					NA	NA	N
IW-B-4	23.35					NA	NA	N
IW-B-5	27.62					NA	NA	N
IW-C-1	15.53	19.2	8.9	18.9	10.0	NA	NA	
IW-C-2	19.68	26.3	6	26	20.0	NA	NA	
IW-D-1	Dry	16.5	6.2	16.2	10.0	NA	NA	
IW-D-2	24.04	30.0	4.7	29.7	25.0	NA	NA	
IW-D-3	unable to		locate			NA	NA	
IW-E-1	9.67	NA	NA	NA	NA	NA	NA	N
DW-B1	21.22						NA	N
OW-B1	21.21						NA	N
OW-B2	20.72						NA	N
OW-B3	20.92						NA	N
OW-B4	21.11						NA	N
OW-B5	21.68						NA	N
OW-B6	21.98						NA	N
DW-D1	18.25						NA	
OW-D1	17.75						NA	

Staff

Date

Time (start/finish)

JB/HA/AS/TG/DS

8/21/23

1120 / 1730

OW-D2	17.81						NA	
OW-D3	17.24						NA	
OW-D4	16.48						NA	
OW-D5	unable to locate						NA	
OW-D6	unable to locate						NA	
C2-02	45.37					NA		N

Staff

Date

Time (start/finish)

JR/HA/AS/DJ/TG

8/21/23

1120 / 15:17:30

PZs								
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-40S	15.79	40.2	28.8	38.8	10.0	NA	Downgradient A	
PZ-41S	16.97	44.2	33.8	43.8	10.0	NA	Downgradient A	
PZ-42S	20.14	32.2	21.8	31.8	10.0	NA	Downgradient A	
PZ-43	29.72	40.4	30	40	10.0	NA	Downgradient A	
PZ-46	11.69	45.6	35.6	45.6	10.0	NA	Downgradient B	
PZ-48	31.82	67.0	56.6	66.6	10.0	NA	Downgradient D	N
PZ-49	9.47	17.0	6.6	16.6	10.0	NA	Downgradient B	N
PZ-54	49.29	52.0	42	52	10.0	NA	Downgradient E	N
PZ-55	55.51	49.3	39.3	49.3	10.0	NA	Downgradient E	N
PZ-56	9.21	29.3	19.3	29.3	10.0	NA	Downgradient B	N
PZ-67	30.41	38.3	27.75	37.75	10.0	NA	Downgradient B	N
PZ-68D	40.85	84.3	73.7	83.7	10.0	NA	Downgradient D	
PZ-69I	21.95	39.3	28.8	38.8	10.0	NA	Downgradient D	N
PZ-71I	34.14				10.0	NA		N
PZ-72I	25.87				10.0	NA		N
PZ-73I	7.57				10.0	NA		N

On the list
to 100

Staff
JB/HA/AS/DS/TG

Date
8/21/23

Time (start/finish)
1120 / 1730

PZs								
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-15S	11.38	39.9	29.9	39.9	10.0	NA	Downgradient	N
PZ-16I	12.43	38.6	28.2	38.2	10.0	NA	Downgradient	N
PZ-16S	12.59	19.1	8.7	18.7	10.0	NA	Downgradient	N
PZ-17I	3.56	43.5	33.1	43.1	10.0	NA	Downgradient	N
PZ-18I	20.68	38.4	28.3	38.3	10.0	NA	Downgradient	N
PZ-18S	20.87	24.2	14.7	24.7	10.0	NA	Downgradient	N
PZ-19I	15.13	43.7	33.3	43.3	10.0	NA	Downgradient	N
PZ-19S	14.85	28.0	17.6	27.6	10.0	NA	Downgradient	N
PZ-20I	17.14	29.5	19.1	29.1	10.0	NA	Downgradient	N
PZ-20S	17.28	15.3	4.9	14.9	10.0	NA	Downgradient	N
PZ-21I	212.58	24.4	14	24	10.0	NA	Downgradient	N
PZ-21S	12.09	9.8	4.4	9.4	5.0	NA	Downgradient	N
PZ-23I	38.14	66.5	56.5	66.5	10.0	NA	Downgradient	N
PZ-24S	14.21	42.0	31.5	41.5	10.0	BRGWC-24S	Downgradient A	N
PZ-26I	22.92	30.5	20.5	30.5	10.0	NA	Downgradient	N
PZ-28I	16.62	24.0	14	24	10.0	NA	Downgradient	N
PZ-31S	27.07	39.5	29.5	39.5	10.0	NA	Downgradient	N

w/ Transducer

w/ Transducer

w/ Transducer

Staff

JB/HA/AD/DS/TG

Date

8/21/22

Time (start/finish)

1120 / 1750

PZs

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-74I	28.17				10.0	NA		N
PZ-75I	17.86				10.0	NA		N
PZ-76I	20.02	44.02			10.0	NA		N
PZ-77I	18.64	43.20			10.0	NA		N
PZ-78I	N/A	Not	Installed		10.0	NA		
PZ-79	13.73				10.0	NA		N
<u>Temporary Piezometers</u>								
PB-13D		97.0	87	97	10.0	NA	Downgradient	

1072

50.95

30.54

19.3

Staff

SB/As/HA/DJ/TG

Date

8/2/23

Time (start/finish)

1120 / 1730

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	TD
PZ-44	27.66	57.0 BA.	46.6	56.6	10.0	NA	Downgradient B	N	59.54
PZ-50D	38.42	106.0	96.02	106.02	10.0	NA	Downgradient	N	110.20
PZ-51S	38.25	45.4	40	45	5.0	NA	Downgradient B	N	47.97
PZ-51I	38.38	65.0	54.9	64.9	10.0	NA	Downgradient B	N	68.02
PZ-51D	38.11	106.0	96.02	106.02	10.0	NA	Downgradient B	N	109.88
PZ-57I	36.29	75.9	65.58	75.58	10.0	NA	Downgradient B	N	
PZ-58I	38.39	63.9	53.6	63.6	10.0	NA	Downgradient B	N	66.92
PZ-59I	39.75	66.0	56.4	66.4	10.0	NA	Downgradient B	N	64.80
PZ-60I	38.14	60.8	50.43	60.43	10.0	NA	Downgradient B	N 64.07	77.96
PZ-61I	47.95	76.0	65.77	75.77	10.0	NA	Downgradient B	N	77.96
PZ-62I	39.17	70.0	60	70	10.0	NA	Downgradient B	N	
PZ-63I	39.47	56.5	46.5	56.5	10.0	NA	Downgradient B	N	
PZ-64I	38.53	69.3	58.75	68.75	10.0	PZ-64	Downgradient B	N	71.54
PZ-65I	36.08	69.3	58.75	68.75	10.0	PZ-65	Downgradient B	N	72.26
PZ-66I	35.75	68.3	57.75	67.75	10.0	PZ-66	Downgradient B	N	
PZ-68D	46.85	84.3	73.75	83.75	10.0	PZ-68	Downgradient D	N	87.0

Staff

DB/HA/AS/DJ/TG

Date

8/21/23

Time (start/finish)

1120 / 1730

TP

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient BCD & E	Y
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ -2I	Upgradient BCD & E	Y
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient BCD & E	Y
BRGWA-5I	12.85	61.2	50.8	60.8	10.0	PZ-5I	Upgradient BCD & E	Y
BRGWA-6S	26.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient BCD & E	Y
BRGWA-23S	38.69	40.8	30.8	40.8	10.0	PZ-23S	Upgradient BCD	Y
BRGWC-25I	11.08	20.5	10.5	20.5	10.0	PZ-25I	Downgradient B	Y
BRGWC-27I	10.98	24.0	14	24	10.0	PZ-27S	Downgradient C	Y
BRGWC-29I	10.88	20.0	10	20	10.0	PZ-29I	Downgradient C	Y
BRGWC-30I	4.88	20.3	10	20	10.0	PZ-30I	Downgradient D	Y
BRGWC-32S	40.50	45.0	35	45	10.0	PZ-32S	Downgradient D	Y
BRGWC-45	15.20	57.0	46.6	56.6	10.0	PZ-45	Downgradient B	Y
BRGWC-47	27.42	92.0	81.6	91.6	10.0	PZ-47	Downgradient D	Y
BRGWC-50	38.23	65.0	54.6	64.6	10.0	PZ-50	Downgradient B	Y
BRGWC-52I	39.68	73.9	63.9	73.9	10.0	PZ-52	Downgradient B	

48.35

Staff

SR/HA/AS/TG/DS

Date

8/21/23

Time (start/finish)

1120 / 1730

PZs, IWs

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
<u>IWs</u>								
IW-B-1	22.42	40.2	4.9	39.9	35.0	NA	NA	
IW-B-2	9.00	16.3	6	16	10.0	NA	NA	N
IW-B-3	17.74					NA	NA	N
IW-B-4	23.35					NA	NA	N
IW-B-5	27.62					NA	NA	N
IW-C-1	15.53	19.2	8.9	18.9	10.0	NA	NA	
IW-C-2	19.68	26.3	6	26	20.0	NA	NA	
IW-D-1	Dry	16.5	6.2	16.2	10.0	NA	NA	
IW-D-2	24.04	30.0	4.7	29.7	25.0	NA	NA	
IW-D-3	unable to locate					NA	NA	
IW-E-1	9.67	NA	NA	NA	NA	NA	NA	N
DW-B1	21.22						NA	N
OW-B1	21.21						NA	N
OW-B2	20.72						NA	N
OW-B3	20.92						NA	N
OW-B4	21.11						NA	N
OW-B5	21.68						NA	N
OW-B6	21.98						NA	N
DW-D1	18.25						NA	
OW-D1	17.75						NA	

Staff

Date

Time (start/finish)

JB/HA/AS/TG/DS

8/21/23

1120 / 1730

OW-D2	17.81						NA	
OW-D3	17.24						NA	
OW-D4	16.48						NA	
OW-D5	unable to locate						NA	
OW-D6	unable to locate						NA	
C2-02	45.37					NA		N

Staff

Date

Time (start/finish)

JR/HA/AS/DJ/TG

8/21/23

1120 / 15:17:30

PZs								
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-40S	15.79	40.2	28.8	38.8	10.0	NA	Downgradient A	
PZ-41S	16.97	44.2	33.8	43.8	10.0	NA	Downgradient A	
PZ-42S	20.14	32.2	21.8	31.8	10.0	NA	Downgradient A	
PZ-43	29.72	40.4	30	40	10.0	NA	Downgradient A	
PZ-46	11.69	45.6	35.6	45.6	10.0	NA	Downgradient B	
PZ-48	31.82	67.0	56.6	66.6	10.0	NA	Downgradient D	N
PZ-49	9.47	17.0	6.6	16.6	10.0	NA	Downgradient B	N
PZ-54	49.29	52.0	42	52	10.0	NA	Downgradient E	N
PZ-55	55.51	49.3	39.3	49.3	10.0	NA	Downgradient E	N
PZ-56	9.21	29.3	19.3	29.3	10.0	NA	Downgradient B	N
PZ-67	30.41	38.3	27.75	37.75	10.0	NA	Downgradient B	N
PZ-68D	40.85	84.3	73.7	83.7	10.0	NA	Downgradient D	
PZ-69I	21.95	39.3	28.8	38.8	10.0	NA	Downgradient D	N
PZ-71I	34.14				10.0	NA		N
PZ-72I	25.87				10.0	NA		N
PZ-73I	7.57				10.0	NA		N

On the list
to 100

Staff
JB/HA/AS/DS/TG

Date
8/21/23

Time (start/finish)
1120 / 1730

PZs								
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-15S	11.38	39.9	29.9	39.9	10.0	NA	Downgradient	N
PZ-16I	12.43	38.6	28.2	38.2	10.0	NA	Downgradient	N
PZ-16S	12.59	19.1	8.7	18.7	10.0	NA	Downgradient	N
PZ-17I	3.56	43.5	33.1	43.1	10.0	NA	Downgradient	N
PZ-18I	20.68	38.4	28.3	38.3	10.0	NA	Downgradient	N
PZ-18S	20.87	24.2	14.7	24.7	10.0	NA	Downgradient	N
PZ-19I	15.13	43.7	33.3	43.3	10.0	NA	Downgradient	N
PZ-19S	14.85	28.0	17.6	27.6	10.0	NA	Downgradient	N
PZ-20I	17.14	29.5	19.1	29.1	10.0	NA	Downgradient	N
PZ-20S	17.28	15.3	4.9	14.9	10.0	NA	Downgradient	N
PZ-21I	212.58	24.4	14	24	10.0	NA	Downgradient	N
PZ-21S	12.09	9.8	4.4	9.4	5.0	NA	Downgradient	N
PZ-23I	38.14	66.5	56.5	66.5	10.0	NA	Downgradient	N
PZ-24S	14.21	42.0	31.5	41.5	10.0	BRGWC-24S	Downgradient A	N
PZ-26I	22.92	30.5	20.5	30.5	10.0	NA	Downgradient	N
PZ-28I	16.62	24.0	14	24	10.0	NA	Downgradient	N
PZ-31S	27.07	39.5	29.5	39.5	10.0	NA	Downgradient	N

w/ Transducer

w/ Transducer

w/ Transducer

Staff

JB/HA/AD/DS/TG

Date

8/21/22

Time (start/finish)

1120 / 1750

PZs

Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-74I	28.17				10.0	NA		N
PZ-75I	17.86				10.0	NA		N
PZ-76I	20.02	44.02			10.0	NA		N
PZ-77I	18.64	43.20			10.0	NA		N
PZ-78I	N/A	Not	Installed		10.0	NA		
PZ-79	13.73				10.0	NA		N
<u>Temporary Piezometers</u>								
PB-13D		97.0	87	97	10.0	NA	Downgradient	

1072

50.95

30.54

19.3

Staff

TG/JT

Date

8-21-23

Time (start/finish)

1300 / 1800

AP-E									
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient E	Y (Transducer)	NA
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ-2I	Upgradient E	Y	NA
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient E	Y	NA
BRGWA-5I	12.85	61.2	50.8	60.8	10.0	PZ-5I	Upgradient E	Y	NA
BRGWA-6S	26.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient E	Y Y	NA
BRGWC-17S	6.03	7.1	1.7	6.7	5.0	PZ-17S	Downgradient E	Transducer	7.05
BRGWC-33S	12.31	26.4	16	26	10.0	PZ-33S	Downgradient E	Y	NA
BRGWC-34S	3.45	23.0	13	23	10.0	PZ-34S	Downgradient E	Y	NA
BRGWC-35S	2.20	27.4	17	27	10.0	PZ-35S	Downgradient E	Y	NA
BRGWC-36S	4.98	28.7	18.7	28.7	10.0	PZ-36S	Downgradient E	N	35.69
BRGWC-37S	53.22	63.6	53.6	63.6	10.0	PZ-37S	Downgradient E	N	NA
BRGWC-38S	23.30	38.2	27.8	37.8	10.0	PZ-38S	Downgradient E	Y	NA
PZ-13S	27.95	34.7	24.3	34.3	10.0	NA	Downgradient E	N	38.40
PZ-52D	24.93	59.5	49.5	59.5	10.0	NA	Downgradient E	N	62.37
PZ-53D	24.07	139.4	129.4	139.4	10.0	NA	Downgradient E	Y	NA
PZ-70I	28.62	50.0	39.5	49.5	10.0	NA	Downgradient E	N	52.98

Staff TG/MAST

Date 8-21-23

Time (start/finish) 1300/1800

PZs									
Well-ID	Depth to Water	Total Depth (feet bgs) ^[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
PZ-1D	39.89	160.0	65.5	160	94.5	NA	Upgradient	N	NA
PZ-1I	41.53	79.5	69.1	79.1	10.0	NA	Upgradient	Transducer	NA
PZ-1S	39.69	65.0	54.6	64.6	10.0	NA	Upgradient	N	NA
PZ-3D	49.44	130.0	48	130	82.0	NA	Upgradient	N	NA
PZ-3I	51.06	54.6	44.2	54.2	10.0	NA	Upgradient	N	NA
PZ-3S	DRY	39.9	29.5	39.5	10.0	NA	Upgradient	N	NA
PZ-4I	33.98	46.8	36.4	46.4	10.0	NA	Upgradient	Transducer	NA
PZ-4S	32.21	30.0	19.6	29.6	10.0	NA	Upgradient	N	NA
PZ-7S	28.60	44.5	34.1	44.1	10.0	NA	Downgradient	N	NA
PZ-8S	27.06	49.5	39.1	49.1	10.0	NA	Upgradient	N	NA
PZ-9S	35.90	48.0	37.6	47.6	10.0	NA	Upgradient	N	NA
PZ-10S	27.75	39.0	28.6	38.6	10.0	NA	Downgradient	N	NA
PZ-14I	19.95	53.8	43.4	53.4	10.0	NA	Downgradient	N	NA
PZ-14S	23.84	37.6	27.2	37.2	10.0	NA	Downgradient	N	NA
PZ-15I	11.12	88.7	78.3	88.3	10.0	NA	Downgradient	N	NA

Obstruction
at
13.0 bto c
possible to
get past

FIELD STAFF:

JB/As/HA/TG/DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - Upgradient Wells

Dates : 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-2S	8/22/23	1006	check field ferrous iron $Fe^{2+} = 0.0 \text{ mg/L}$
BRA-BRGWA-2I	08/22/23	1012	$Fe^{2+} = 0.0 \text{ mg/L}$ Plus Eurofins split sulfide check field ferrous iron
BRA-BRGWA-5S	8/22/23	1005	$Fe^{2+} = 0.0 \text{ mg/L}$ check field ferrous iron
BRA-BRGWA-5I	8/22	1010	$Fe^{2+} = 0.0 \text{ mg/L}$ Plus Eurofins split sulfide check field ferrous iron
BRA-BRGWA-6S	8/22/23	1015	Plus Eurofins split sulfide check field ferrous iron $Fe^{2+} = 0.0 \text{ mg/L}$

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks

FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2023S2

FIELD STAFF:

JB/HA/AG/DJ

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD

Dates : 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
NA ^s BRA-APBCD-FD-01 ✓	08/23/23	—	Parent Sample: BR6wC-50
53 ^s BRA-APBCD-FD-02 ✓	8/23/23	1630	Parent Sample: PZ-63I
BRA-APBCD-FD-03 ✓	8/24/23	1206	Parent Sample: BR6wC-45
BRA-APBCD-FB-01 ✓	8/22/23	1400	Poured at: BR6wC-325
BRA-APBCD-FB-02 ✓	08/23/23	1450	Poured at: PZ-51I
BRA-APBCD-FB-03 ✓	08/24/23	1255	Poured at: BR6wC-52I
NA ^s BRA-APBCD-EB-04 ✓	08/23/23	1135	Equipment Type: Pot H BP
BRA-APBCD-EB-05 ✓	8/24/23	0955	Equipment Type: Peri Pump
BRA-APBCD-EB-06 ✓	08/24/23	1400	Equipment Type: Water Level

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks

FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2023S2

9

FIELD STAFF:

JB/AS/HA/DS

Georgia Power Site Sampling Data (GW)			
Site Name: Plant Branch AP - BCD		Dates: 8/21/23 - 8/24/23	
Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-23S ✓	8/22/23	1240	Fe ²⁺ = 0.0 mg/L check field ferrous iron
55 BRA-BRGWC-25I ✓	08/24/23	1647	Fe ²⁺ = 0.0 mg/L check field ferrous iron
50 BRA-BRGWC-27I ✓	8/24/23	1205	Fe ²⁺ = 0.0 mg/L check field ferrous iron
50 BRA-BRGWC-29I ✓	08/24/23	1520	Fe ²⁺ = 6.5 mg/L check field ferrous iron
BRA-BRGWC-30I ✓	8/22/23	1522	Fe ²⁺ = 0.5 mg/L check field ferrous iron
BRA-BRGWC-32S ✓	8/22/23	1420	Fe ²⁺ = 0.0 mg/L check field ferrous iron
55 BRA-BRGWC-45 ✓	8/24/23	1206	Fe ²⁺ = 0.0 mg/L check field ferrous iron
AS BRA-BRGWC-47 ✓	08/24/23	1445	Fe ²⁺ = 0.0 mg/L check field ferrous iron
AS BRA-BRGWC-50 ✓	08/23/23	1100	Low pH on Gel Bottle Plus Eurofins split sulfide check field ferrous iron Fe ²⁺ = 0.0 mg/L
AS BRA-BRGWC-52I ✓	8/24/23	1305	Fe ²⁺ = 1.0 mg/L check field ferrous iron
BRA-PZ-44 ✓	08/23/23	1640	Fe ²⁺ = 0.0 mg/L check field ferrous iron
AS BRA-PZ-50D ✓	08/23/23	1230	Fe ²⁺ = 4.0 mg/L check field ferrous iron

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FIELD STAFF:

JB / AS / HA / DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD

Dates: 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
AS BRA-PZ-51I ✓	08/23/23	1500	Fe ²⁺ = 0.0 mg/L check field ferrous iron
AS BRA-PZ-51D ✓	8/24/23	1100	Fe ²⁺ = 1.5 mg/L check field ferrous iron
BRA-PZ-57I ✓	8/21/23	1755	Fe ²⁺ = 1.0 mg/L Sulfide only
JB BRA-PZ-58I ✓	8/23/23	1510	Fe ²⁺ = 7.0 mg/L check field ferrous iron
BRA-PZ-59I ✓	08/23/23	1140	got PH = 8 got PH = 7 so TA PH = 7.4 Sulfide only
JB BRA-PZ-60I ✓	08/23/23	1325	Fe ²⁺ = 1.5 mg/L check field ferrous iron
BRA-PZ-61I ✓	8/22/23	1615	Fe ²⁺ = 0.5 mg/L check field ferrous iron
JB BRA-PZ-63I ✓	8/23/23	1630	1.5 mg/L check field ferrous iron
HA BRA-PZ-64I ✓	08/23/23 08/23/23	1055 1100	low PH on test bottle Plus Eurofins split sulfide Fe ²⁺ = 1.75 check field ferrous iron
BRA-PZ-65I ✓	8/21/23	1745	Fe ²⁺ = 5.0 mg/L Sulfide only
HA BRA-PZ-68D ✓	08/23/23	1608	Fe ²⁺ = 0.5 mg/L check field ferrous iron
BRA-PZ-74I ✓	08/21/23	1415	Fe ²⁺ = 1.5 mg/L check field ferrous iron
BRA-PZ-75I ✓	08/24/23	1051	Fe ²⁺ = 0.5 0.5 mg/L check field ferrous iron

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34, 21

FIELD STAFF:

JB/AS/HA/DJ

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - New PZs

Dates: 8/22 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-PZ-76I	8/23/23	1037	Fe ²⁺ = 0.0 mg/L First COC Plus Eurofins split sulfide check field ferrous iron
BRA-PZ-77I	8/23/23	1026	Fe ²⁺ = 0.5 mg/L First COC Plus Eurofins split sulfide check field ferrous iron
BRA-PZ-79(in.)	8/22/23	1125	Fe ²⁺ = 0.75 mg/L Second COC check field ferrous iron initial sample
BRA-PZ-79	8/23/23	1010	Fe ²⁺ = 0.75 mg/L Second COC check field ferrous iron stabilized sample

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks

FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-OTH-2023MMDD (fill in month and first date of event on COC)

FIELD STAFF:

JB/AS/HA/DS

Georgia Power Site Sampling Data (GW)			
Site Name: Plant Branch AP - Split		Dates : 8/21/23 - 8/23/23	
Sample ID	Sample Date	Sample Time	Additional Comments
Upgradient			
BRA-BRGWA-2I	08/22/23	1012	pH = 7 pH strip check for bottle >9
BRA-BRGWA-5I	08/22/23	1010	pH > 9 - yes Both pH strip check for bottle >9
BRA-BRGWA-6S	08/22/23	1015	pH > 9 - yes Both pH strip check for bottle >9
AP-B			
BRA-BRGWC-50	08/23/23	1100	Low pH on 6el Bottle pH strip check for bottle >9
BRA-PZ-57I	08/21/23	1755	pH > 9 Both pH strip check for bottle >9
BRA-PZ-59I	08/23/23	1140	Both bottles > 9 pH strip check for bottle >9
BRA-PZ-64I	08/23/23	1055	6el Bottle pH = 7 pH strip check for bottle >9
BRA-PZ-65I	08/21/23	1745	pH > 9 - yes Both pH strip check for bottle >9
AP-E			
BRA-BRGWC-33S	8-22-23	1210	pH > 9 - yes Both pH strip check for bottle >9
BRA-BRGWC-35S	8-23-23	1201	Both bottles, pH > 9 pH strip check for bottle >9
BRA-BRGWC-38S	8-23-23	1212	6el Bottle = 7 pH strip check for bottle >9 Eurofins Bottle = 7.2
BRA-PZ-76I	8-23-23	1037	pH strip check for bottle >9 Both Bottles > 9
BRA-PZ-77I	8-23-23	1026	pH strip check for bottle >9 Both Bottle > 9
<u>Separate Eurofins COC</u>			
Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks FD for blind field duplicates with WG matrix			
Additional comments : Split samples for sulfide analysis to be analyzed by Eurofins			
Note if Dissolved metals were taken			

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/21/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/21/2023

Calibration Details

Slope 0.9795665
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.78 mg/L
Temperature 29.11 °C
Barometric Pressure 1,006.2 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/21/2023

Calibration Details

Cell Constant 0.585
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/21/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 169.3 mV
Temperature 31.40 °C

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -8.2 mV
Temperature 31.87 °C

Calibration Point 3

pH of Buffer 9.95 pH
pH mV -165.7 mV
Temperature 31.24 °C

Slope and Offset 1

Slope -59.57 mV/pH
Offset -8.8 mV

Slope and Offset 2

Slope -53.22 mV/pH
Offset -8.7 mV

ORP

ORP Solution Zobell's
Offset 3.5 mV
Temperature 31.72 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/22/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/22/2023

Calibration Details

Slope 0.9668571
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.69 mg/L
Temperature 23.66 °C
Barometric Pressure 1,005.7 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/22/2023

Calibration Details

Cell Constant 0.728
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 160.2 mV
Temperature 23.97 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -14.4 mV
Temperature 24.06 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -158.6 mV
Temperature 23.97 °C

Slope and Offset 1

Slope -58.19 mV/pH
Offset -14.4 mV

Slope and Offset 2

Slope -48.07 mV/pH
Offset -14.4 mV

ORP

ORP Solution Zobell's
Offset 1.3 mV
Temperature 24.29 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/22/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/22/2023

Calibration Details

Slope 0.9584947
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.32 mg/L
Temperature 26.58 °C
Barometric Pressure 1,006.7 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/22/2023

Calibration Details

Cell Constant 0.595
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 154.5 mV
Temperature 26.54 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -17.7 mV
Temperature 26.34 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -188.2 mV
Temperature 26.50 °C

Slope and Offset 1

Slope -57.4 mV/pH
Offset -17.7 mV

Slope and Offset 2

Slope -56.84 mV/pH
Offset -17.7 mV

ORP

ORP Solution Zobell's
Offset 33.6 mV
Temperature 26.80 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884189
Created 8/22/2023

Sensor **RDO**

Serial Number 878531
Last Calibrated 8/22/2023

Calibration Details

Slope 1.077993
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.12 mg/L
Temperature 28.04 °C
Barometric Pressure 1,004.3 mbar

Sensor **Conductivity**

Serial Number 884189
Last Calibrated 8/22/2023

Calibration Details

Cell Constant 0.933
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 879249
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 150.0 mV
Temperature 27.62 °C

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -15.6 mV
Temperature 27.67 °C

Calibration Point 3

pH of Buffer 9.95 pH
pH mV -196.1 mV
Temperature 27.98 °C

Slope and Offset 1

Slope -55.56 mV/pH
Offset -16.1 mV

Slope and Offset 2

Slope -60.98 mV/pH
Offset -16.2 mV

ORP

ORP Solution Zobell's
Offset 35.2 mV
Temperature 27.66 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/23/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/23/2023

Calibration Details

Slope 0.9610294
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.09 mg/L
Temperature 27.90 °C
Barometric Pressure 1,005.0 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/23/2023

Calibration Details

Cell Constant 0.681
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 161.0 mV
Temperature 27.32 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -17.4 mV
Temperature 26.42 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -162.1 mV
Temperature 26.47 °C

Slope and Offset 1

Slope -59.44 mV/pH
Offset -17.4 mV

Slope and Offset 2

Slope -48.25 mV/pH
Offset -17.4 mV

ORP

ORP Solution Zobell's
Offset 4.0 mV
Temperature 26.35 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/23/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/22/2023

Calibration Details

Slope 0.9584947
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.32 mg/L
Temperature 26.58 °C
Barometric Pressure 1,006.7 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/22/2023

Calibration Details

Cell Constant 0.595
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 154.5 mV
Temperature 26.54 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -17.7 mV
Temperature 26.34 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -188.2 mV
Temperature 26.50 °C

Slope and Offset 1

Slope -57.4 mV/pH
Offset -17.7 mV

Slope and Offset 2

Slope -56.84 mV/pH
Offset -17.7 mV

ORP

ORP Solution Zobell's
Offset 33.6 mV
Temperature 26.80 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884189
Created 8/23/2023

Sensor **RDO**

Serial Number 878531
Last Calibrated 8/23/2023

Calibration Details

Slope 1.083888
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.01 mg/L
Temperature 28.22 °C
Barometric Pressure 1,003.7 mbar

Sensor **Conductivity**

Serial Number 884189
Last Calibrated 8/23/2023

Calibration Details

Cell Constant 0.877
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 879249
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 148.9 mV
Temperature 27.44 °C

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -17.3 mV
Temperature 27.57 °C

Calibration Point 3

pH of Buffer 9.95 pH
pH mV -194.8 mV
Temperature 28.06 °C

Slope and Offset 1

Slope -55.6 mV/pH
Offset -17.9 mV

Slope and Offset 2

Slope -59.97 mV/pH
Offset -17.9 mV

ORP

ORP Solution Zobell's
Offset 49.7 mV
Temperature 26.65 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/24/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/24/2023

Calibration Details

Slope 0.9797801
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.51 mg/L
Temperature 24.10 °C
Barometric Pressure 1,006.1 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/24/2023

Calibration Details

Cell Constant 0.634
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 163.4 mV
Temperature 24.42 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -14.3 mV
Temperature 24.35 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -157.5 mV
Temperature 24.81 °C

Slope and Offset 1

Slope -59.22 mV/pH
Offset -14.3 mV

Slope and Offset 2

Slope -47.75 mV/pH
Offset -14.3 mV

ORP

ORP Solution Zobell's
Offset -1.1 mV
Temperature 24.85 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965678
Created 8/24/2023

Sensor **RDO**

Serial Number 964485
Last Calibrated 8/24/2023

Calibration Details

Slope 1.012094
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.16 mg/L
Temperature 24.65 °C
Barometric Pressure 1,005.8 mbar

Sensor **Conductivity**

Serial Number 965678
Last Calibrated 8/24/2023

Calibration Details

Cell Constant 0.829
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 965199
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21997
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 83.9 mV
Temperature 25.65 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -85.2 mV
Temperature 25.78 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -253.5 mV
Temperature 25.56 °C

Slope and Offset 1

Slope -56.34 mV/pH
Offset -85.2 mV

Slope and Offset 2

Slope -56.12 mV/pH
Offset -85.2 mV

ORP

ORP Solution Zobell's
Offset 81.4 mV
Temperature 26.32 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/24/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/24/2023

Calibration Details

Slope 1.047746
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.97 mg/L
Temperature 24.05 °C
Barometric Pressure 1,006.9 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/23/2023

Calibration Details

Cell Constant 0.576
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 149.9 mV
Temperature 24.91 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -21.3 mV
Temperature 25.65 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -191.9 mV
Temperature 25.14 °C

Slope and Offset 1

Slope -57.07 mV/pH
Offset -21.3 mV

Slope and Offset 2

Slope -56.84 mV/pH
Offset -21.3 mV

ORP

ORP Solution Zobell's
Offset 38.7 mV
Temperature 25.82 °C

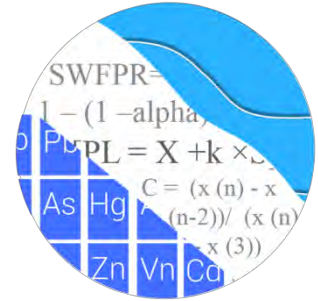
APPENDIX C

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

February 28, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374



Re: Plant Branch Ponds B, C, D – August/September 2023 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2023 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Ponds B, C, and D. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 for most wells. However, sampling for wells BRGWC-45, BRGWC-47, BRGWC-50 and BRGWC-52I began in 2018, and at least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, BRGWA-6S, and BRGWA-23S
- **Downgradient wells:** BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- **Assessment wells:** PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ-64I, PZ-68D, PZ-74I, and PZ-75I

Previously, the monitoring well network included upgradient wells BRGWA-12I and BRGWA-12S, and assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I. Upgradient wells BRGWA-12I and BRGWA-12S were abandoned, but data from these upgradient wells will continue to be included in construction of interwell prediction limits and interwell upper tolerance limits since the data represents historical groundwater quality upgradient of the facility. Assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I are not included in this analysis, per request of Geosyntec Consultants Inc. New assessment wells PZ-74I, and PZ-75I were included in the well network and are plotted on time series and box plots. Data from assessment wells are evaluated using confidence intervals when a minimum of 4 samples are available.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. A substitution of the most recent reporting limit is used for non-detect data.

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). Assessment well data are included on the time series graphs, and with the confidence intervals when a minimum of 4 samples are available as discussed above. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site

characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was 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.

After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the most reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary. Although outliers are screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits. The current list of outliers includes a few additional measurements that were not flagged as outliers in the previous background screening list for Appendix III parameters.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, 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 future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. Note that the reporting limit for boron during the March 2019 event was 0.1 mg/L; however, the

historical reporting limit of 0.04 mg/L was substituted at that time for all non-detects which provided more conservative (lower) statistical limits.

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 Tests

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses, included with the background screening report, showed a number of statistically significant decreasing trends for the Appendix III parameters. 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 would not be conservative from a regulatory

perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – August/September 2023

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (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. As mentioned above, data from abandoned upgradient wells BRGWA-12I and BRGWA-12S are included in calculations for interwell upper tolerance limits. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for several Appendix III parameters. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, and BRGWC-52I
- Calcium: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- Chloride: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, and BRGWC-52I

- Fluoride: BRGWC-50
- pH (lower limit): BRGWC-29I and BRGWC-50
- Sulfate: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- TDS: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I

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 to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-47
- Calcium: BRGWA-6S (upgradient) and BRGWC-30I
- Fluoride: BRGWA-5I
- Sulfate: BRGWC-30I
- TDS: BRGWC-30I

Decreasing:

- Boron: BRGWC-29I
- Calcium: BRGWA-23S (upgradient), BRGWC-25I, and BRGWC-45
- Chloride: BRGWA-12I (upgradient), BRGWA-23S (upgradient), BRGWA-5I (upgradient), BRGWA-5S (upgradient), BRGWC-45, BRGWC-50, and BRGWC-52I
- pH: BRGWA-2I (upgradient), BRGWA-2S (upgradient), and BRGWA-5S (upgradient)
- Sulfate: BRGWA-12I (upgradient), BRGWA-12S (upgradient), BRGWA-23S (upgradient), BRGWC-25I, BRGWC-27I, and BRGWC-32S
- TDS: BRGWA-5S (upgradient), BRGWA-23S (upgradient), BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-50

Evaluation of Appendix IV Parameters – August/September 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G). Note that due to the steady increase in concentrations for antimony at upgradient well BRGWA-12I, the MCL was used in lieu of the Background limit for antimony to maintain a GWPS that is conservative from a regulatory perspective.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well with detections (Figure H). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above.

Note that due to the limited sample size, the lower confidence limit of a parametric confidence interval resulted in a negative number for cobalt at assessment well PZ-50D and for combined radium 226 + 228 at assessment well PZ-63I. Additionally, concentrations for lithium at PZ-60I remain above the GWPS of 0.089 mg/L. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well when $n \leq 8$, were constructed for these particular cases and follows the confidence intervals (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data.

When evaluating the entire record of data for selenium at downgradient well BRGWC-32S and beryllium at downgradient well BRGWC-50, steady increasing trends in concentrations since 2019 for selenium and since 2020 for beryllium were noted. Therefore, the confidence intervals evaluate data since 2019 and 2020, respectively, for these well/constituent pairs. 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.

Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-50, PZ-58I, and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium: PZ-60I
- Selenium: BRGWC-32S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Note that the trend tests have meaningful results once well/constituent pairs have greater than 5 samples. A summary of the Appendix IV trend test results follows this letter. The following statistically significant trends were identified:

Increasing

- Beryllium: BRGWC-50
- Selenium: BRGWC-32S

Decreasing

- Cadmium: BRGWC-50
- Cobalt: BRGWA-2S, BRGWA-5I, and BRGWA-23S (all upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Ponds B, C, D. 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

Date Ranges

Date: 1/31/2024 2:04 PM

Plant Branch Client: Southern Company Data: Plant Branch AP

Beryllium (mg/L)

BRGWC-50 overall:3/4/2020-9/8/2023

Selenium (mg/L)

BRGWC-32S overall:8/27/2019-8/21/2023

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 1/31/2024 1:44 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)

BRGWC-25I, BRGWC-27I, PZ-44, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Arsenic (mg/L)

PZ-63I

Beryllium (mg/L)

BRGWC-25I, BRGWC-30I, BRGWC-32S, BRGWC-52I, PZ-44, PZ-51D, PZ-63I

Cadmium (mg/L)

BRGWC-25I, BRGWC-29I, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-63I

Chromium (mg/L)

PZ-44, PZ-50D, PZ-51D, PZ-58I, PZ-60I, PZ-63I

Cobalt (mg/L)

PZ-44

Lead (mg/L)

BRGWC-32S, PZ-44, PZ-60I, PZ-63I

Lithium (mg/L)

BRGWC-25I

Mercury (mg/L)

BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Molybdenum (mg/L)

BRGWC-27I, BRGWC-29I, BRGWC-32S, PZ-44, PZ-58I, PZ-60I, PZ-61I

Selenium (mg/L)

BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-63I

Thallium (mg/L)

BRGWC-25I, BRGWC-27I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-45	0.068	n/a	9/6/2023	0.0444	No	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/25/2023	4.81	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/23/2023	3.35	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/23/2023	4.3	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/25/2023	4.67	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/25/2023	0.25	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/25/2023	0.302	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/25/2023	0.0849J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/23/2023	0.116	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/23/2023	0.0477J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/25/2023	0.185	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/25/2023	0.243	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/25/2023	0.188J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.016	5.595	8/24/2023	6.14	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.016	5.595	8/24/2023	6.01	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-30I	7.016	5.595	8/22/2023	6.44	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.016	5.595	8/22/2023	5.98	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.016	5.595	8/24/2023	5.71	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.016	5.595	8/24/2023	5.69	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-52I	7.016	5.595	8/24/2023	6.24	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001812	22	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.05112	-32	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.08885	-68	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-30I	0.05341	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05767	-56	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-50	0.008541	42	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.05214	45	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-3.17	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-4.144	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.414	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	1.347	14	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-6.102	-62	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.2829	-8	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.409	-54	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1739	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12I (bg)	-0.008595	-35	-74	No	19	21.05	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12S (bg)	0	63	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-23S (bg)	0	17	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-50	-0.03378	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.03095	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.01574	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03717	-62	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-29I	-25.24	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-45	-2.7	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-51.06	-73	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-87.99	-62	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-52I	-7.645	-56	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-52I	-11.87	-51	-68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/24/2023, 2:23 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0245	n/a	n/a	n/a	150	83.33	n/a	n/a	0.0004556	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	150	76.67	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	150	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	152	98.68	n/a	n/a	0.0004111	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	150	22	n/a	n/a	0.0004556	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	150	55.33	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.171	n/a	n/a	n/a	150	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	158	50	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.002	n/a	n/a	n/a	150	88	n/a	n/a	0.0004556	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	150	41.33	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	134	88.81	n/a	n/a	0.001035	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	147	76.19	n/a	n/a	0.0005313	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	150	92	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)

PLANT BRANCH POND BCD GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.17	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method	
Beryllium (mg/L)	BRGWC-50	0.008516	0.005195	0.004	Yes	9	0.006856	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-58I	0.03983	0.02257	0.004	Yes	5	0.0312	0.005152	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-60I	0.07905	0.06195	0.004	Yes	5	0.0705	0.005101	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-50	0.038	0.0079	0.005	Yes	19	0.02552	0.0242	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-60I	0.01719	0.01445	0.005	Yes	5	0.01582	0.0008198	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-50	1.42	1.35	0.014	Yes	19	1.392	0.0633	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-51I	0.0259	0.018	0.014	Yes	12	0.02274	0.006306	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-58I	0.5929	0.3659	0.014	Yes	5	0.4794	0.06773	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-60I	3.827	3.333	0.014	Yes	5	3.58	0.1471	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-61I	0.7712	0.382	0.014	Yes	5	0.5766	0.1162	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-60I	0.114	0.0936	0.089	Yes	5	0.1013	0.007636	0	None	No	0.031	NP (selected)
Selenium (mg/L)	BRGWC-32S	0.1777	0.08972	0.05	Yes	11	0.1337	0.0528	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0016	0.006	No	20	0.002502	0.0008619	65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	20	0.002868	0.0005926	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.003	0.00092	0.006	No	19	0.002624	0.0008973	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	19	0.002642	0.0008549	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.003	0.00056	0.006	No	6	0.002593	0.0009961	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51D	0.003	0.0013	0.006	No	6	0.002717	0.000694	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51I	0.003	0.0012	0.006	No	10	0.002469	0.0008816	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	19	0.004092	0.001808	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	19	0.004163	0.001669	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0015	0.01	No	19	0.003611	0.001909	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	19	0.004498	0.001251	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	19	0.004765	0.001025	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0021	0.01	No	20	0.003867	0.001817	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002641	0.001266	0.01	No	20	0.002965	0.001753	30	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.005	0.00236	0.01	No	19	0.004077	0.001646	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.005	0.0026	0.01	No	19	0.003798	0.001452	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-44	0.005	0.00221	0.01	No	7	0.004459	0.001059	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002982	0.0008455	0.01	No	6	0.002428	0.001481	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.003948	0.001176	0.01	No	6	0.002968	0.001417	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.005	0.005	0.01	No	10	0.004722	0.0008791	90	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.005	0.00245	0.01	No	5	0.00449	0.00114	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	5	0.004124	0.001317	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-61I	0.003048	0.002019	0.01	No	5	0.0035	0.001397	40	Kaplan-Meier	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03371	0.02648	2	No	19	0.03051	0.00672	0	None	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01674	0.01509	2	No	19	0.01592	0.001409	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01903	0.017	2	No	19	0.01802	0.001739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03032	0.02311	2	No	19	0.02718	0.006723	0	None	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.04014	0.02605	2	No	19	0.03309	0.01202	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09133	0.0718	2	No	20	0.08157	0.0172	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04162	0.03263	2	No	20	0.03713	0.007917	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.02069	0.01781	2	No	19	0.01925	0.002456	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02593	0.01695	2	No	19	0.02186	0.008206	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05569	0.04728	2	No	7	0.05149	0.003537	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.04083	0.0253	2	No	6	0.03307	0.005652	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.07446	0.04064	2	No	6	0.05755	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51I	0.01594	0.01396	2	No	10	0.01495	0.001115	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01831	0.01573	2	No	5	0.01702	0.0007727	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02351	0.02073	2	No	5	0.02212	0.0008319	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0125	2	No	5	0.0165	0.007057	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.022	2	No	4	0.02603	0.00733	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	20	0.0002617	0.000184	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001074	0.0008106	0.004	No	19	0.0009597	0.0002429	5.263	None	In(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	21	0.0004583	0.0001317	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	20	0.0004329	0.0001639	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-50	0.008516	0.005195	0.004	Yes	9	0.006856	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-50D	0.0025	0.000059	0.004	No	6	0.001721	0.001208	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	10	0.0002476	0.0002175	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	PZ-58I	0.03983	0.02257	0.004	Yes	5	0.0312	0.005152	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-60I	0.07905	0.06195	0.004	Yes	5	0.0705	0.005101	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-61I	0.002003	0.001305	0.004	No	5	0.001654	0.0002085	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	20	0.000908	0.0002832	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	20	0.000911	0.0002741	90	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	20	0.0008645	0.000331	85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	21	0.0008356	0.0003477	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	20	0.0005865	0.0004251	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-50	0.038	0.0079	0.005	Yes	19	0.02552	0.0242	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-51I	0.007544	0.00117	0.005	No	12	0.006233	0.009531	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-58I	0.004829	0.003763	0.005	No	5	0.004296	0.0003183	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-60I	0.01719	0.01445	0.005	Yes	5	0.01582	0.0008198	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-61I	0.001049	0.00008008	0.005	No	5	0.0005644	0.000289	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	19	0.009083	0.002748	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	19	0.009158	0.002544	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	19	0.01053	0.002294	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	19	0.009953	0.00149	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	19	0.005195	0.004228	42.11	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	20	0.008646	0.003309	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	20	0.008207	0.003685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.01	0.00098	0.1	No	19	0.006881	0.004281	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	19	0.009563	0.001904	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-51I	0.01	0.00098	0.1	No	10	0.008178	0.003841	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-61I	0.01	0.0077	0.1	No	5	0.00954	0.001029	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005891	0.003686	0.014	No	19	0.005039	0.00211	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.01028	0.007556	0.014	No	20	0.008916	0.002396	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009386	0.006679	0.014	No	19	0.008172	0.002486	5.263	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.0008	0.014	No	20	0.007016	0.01422	15	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	20	0.001075	0.0003354	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01235	0.005405	0.014	No	21	0.01143	0.01401	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001516	0.0004522	0.014	No	20	0.002026	0.002969	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-50	1.42	1.35	0.014	Yes	19	1.392	0.0633	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-52I	0.0015	0.00063	0.014	No	19	0.001306	0.0009458	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.506	0.0037	0.014	No	7	0.128	0.1811	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	PZ-51D	0.001	0.000306	0.014	No	7	0.000649	0.0003306	42.86	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-51I	0.0259	0.018	0.014	Yes	12	0.02274	0.006306	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-58I	0.5929	0.3659	0.014	Yes	5	0.4794	0.06773	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-60I	3.827	3.333	0.014	Yes	5	3.58	0.1471	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-61I	0.7712	0.382	0.014	Yes	5	0.5766	0.1162	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-63I	0.0372	0.01335	0.014	No	4	0.02528	0.005252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	1.649	0.6555	5	No	19	1.251	1.026	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.488	0.6539	5	No	19	1.145	0.8041	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.859	1.229	5	No	19	1.544	0.5385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.571	0.7037	5	No	19	1.213	0.8317	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.322	0.5448	5	No	19	0.9333	0.6635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9045	0.4255	5	No	20	0.665	0.4218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.907	0.8611	5	No	20	1.384	0.9213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.126	1.254	5	No	19	1.823	1.076	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.045	1.537	5	No	19	2.595	1.872	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	1.804	0.1445	5	No	7	0.8834	0.8433	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	2.804	0.9298	5	No	6	1.867	0.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	3.735	1.251	5	No	6	2.493	0.9042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51I	3.695	0.719	5	No	10	2.636	3.453	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-58I	4.688	0.06812	5	No	5	2.378	1.378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-60I	5.692	1.724	5	No	5	3.708	1.184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-61I	3.942	0.4133	5	No	5	1.856	1.106	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-63I	6.03	0.768	5	No	4	2.657	2.335	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.25	0.15	4	No	20	0.2124	0.1265	5	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-27I	0.2597	0.1685	4	No	20	0.2141	0.08032	10	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.2114	0.09945	4	No	20	0.17	0.1177	10	None	x^(1/3)	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-30I	0.3243	0.1374	4	No	20	0.2501	0.2052	5	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	20	0.1034	0.0383	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.166	0.067	4	No	21	0.1761	0.2193	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.28	0.1	4	No	21	0.2283	0.2452	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7652	0.3657	4	No	20	0.6009	0.4231	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2251	0.1389	4	No	19	0.182	0.07363	5.263	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.1933	0.06826	4	No	7	0.1791	0.09553	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2345	0.09408	4	No	7	0.1643	0.0591	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3721	0.2242	4	No	7	0.2981	0.06224	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0744	4	No	11	0.1003	0.02209	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.788	0.8055	4	No	5	1.23	0.3281	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-60I	2.312	0.9685	4	No	5	1.64	0.4007	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.2124	0.03122	4	No	5	0.1284	0.05446	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3286	0.09985	4	No	4	0.2143	0.05039	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	19	0.001898	0.0004444	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.00029	0.015	No	18	0.0008283	0.0007545	27.78	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	20	0.001656	0.0007119	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	20	0.001712	0.0007042	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.002	0.0001	0.015	No	19	0.001234	0.0009282	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	19	0.001897	0.0004492	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.002	0.000056	0.015	No	6	0.001676	0.0007936	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51D	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51I	0.002	0.00036	0.015	No	10	0.001653	0.0007329	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.00086	0.015	No	5	0.00253	0.002255	40	None	No	0.031	NP (normality)
Lead (mg/L)	PZ-61I	0.002	0.00113	0.015	No	5	0.001806	0.0003804	60	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	19	0.003726	0.00386	26.32	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003583	0.003063	0.089	No	19	0.003323	0.0004437	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.01896	0.01284	0.089	No	19	0.01616	0.005502	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	19	0.005085	0.007125	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003833	0.002971	0.089	No	19	0.003402	0.0007362	10.53	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04563	0.04113	0.089	No	20	0.04338	0.003961	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04439	0.03864	0.089	No	19	0.0417	0.005202	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.008695	0.003692	0.089	No	19	0.007458	0.006342	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006813	0.004472	0.089	No	7	0.005643	0.0009854	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02759	0.01878	0.089	No	6	0.02318	0.003208	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.01024	0.005163	0.089	No	6	0.008033	0.002177	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02356	0.01924	0.089	No	10	0.0214	0.002421	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05661	0.03655	0.089	No	5	0.04658	0.005985	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-60I	0.114	0.0936	0.089	Yes	5	0.1013	0.007636	0	None	No	0.031	NP (selected)
Lithium (mg/L)	PZ-61I	0.01262	0.00839	0.089	No	5	0.01051	0.001263	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.00819	0.003735	0.089	No	4	0.005963	0.0009812	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	17	0.0001837	0.00004662	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	17	0.0001822	0.00005032	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.0002	0.000098	0.002	No	17	0.0001769	0.00005236	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	17	0.000176	0.00005399	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	17	0.0001807	0.00004308	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.0002	0.0002	0.002	No	10	0.0001899	0.00003194	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	18	0.005999	0.004605	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	18	0.006617	0.004373	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.01	0.00076	0.1	No	19	0.008004	0.003971	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	19	0.008466	0.003639	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.001	0.1	No	18	0.001194	0.0005965	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.000782	0.1	No	18	0.005459	0.004128	38.89	None	No	0.01	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	PZ-50D	0.001932	0.0006431	0.1	No	6	0.001318	0.0004849	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.0054	0.0004734	0.1	No	6	0.002563	0.002181	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000313	0.1	No	10	0.0008596	0.0002961	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.001113	0.0003887	0.1	No	4	0.0007508	0.0001595	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0025	0.05	No	19	0.003963	0.001231	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	19	0.004847	0.001272	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	19	0.004658	0.0008255	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-32S	0.1777	0.08972	0.05	Yes	11	0.1337	0.0528	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	20	0.004895	0.0004696	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.002	0.05	No	20	0.00408	0.001462	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.005	0.002	0.05	No	19	0.003676	0.001412	47.37	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.005268	0.00116	0.05	No	5	0.003214	0.001226	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.005387	0.002241	0.05	No	5	0.003814	0.0009389	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.008085	0.001571	0.05	No	5	0.004828	0.001944	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	19	0.0007537	0.00087	31.58	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-50	0.001312	131	58	Yes	19	10.53	n/a	0.05	NP
Cadmium (mg/L)	BRGWC-50	-0.006628	-98	-58	Yes	19	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-23S (bg)	-0.0006334	-99	-58	Yes	19	21.05	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0003364	-119	-58	Yes	19	10.53	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001008	-66	-49	Yes	17	0	n/a	0.05	NP
Selenium (mg/L)	BRGWC-32S	0.03358	137	62	Yes	20	20	n/a	0.05	NP

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

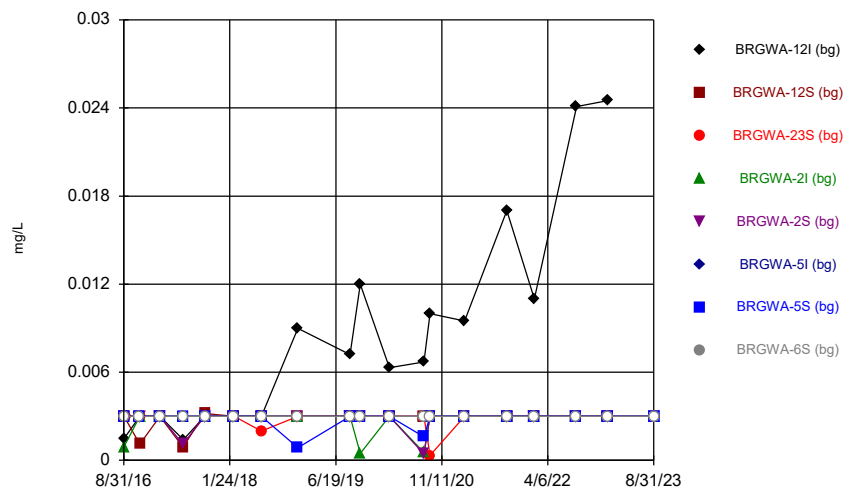
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWC-50	0.001312	131	58	Yes	19	10.53	n/a	0.05	NP
Beryllium (mg/L)	PZ-58I	0.007552	6	10	No	5	0	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	0.003445	2	10	No	5	0	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	9	58	No	19	89.47	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWC-50	-0.006628	-98	-58	Yes	19	0	n/a	0.05	NP
Cadmium (mg/L)	PZ-60I	-0.0005838	-5	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-23S (bg)	-0.0006334	-99	-58	Yes	19	21.05	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0003364	-119	-58	Yes	19	10.53	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001008	-66	-49	Yes	17	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	16	58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001415	27	30	No	12	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-58I	0.08766	10	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-60I	0.1881	8	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-61I	0.1401	10	10	No	5	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0002474	30	58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.001146	-33	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0002928	-38	-58	No	19	26.32	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-6S (bg)	0.0001136	56	58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	PZ-60I	-0.0008267	0	10	No	5	0	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	-0.00002946	-22	-58	No	19	36.84	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWC-32S	0.03358	137	62	Yes	20	20	n/a	0.05	NP

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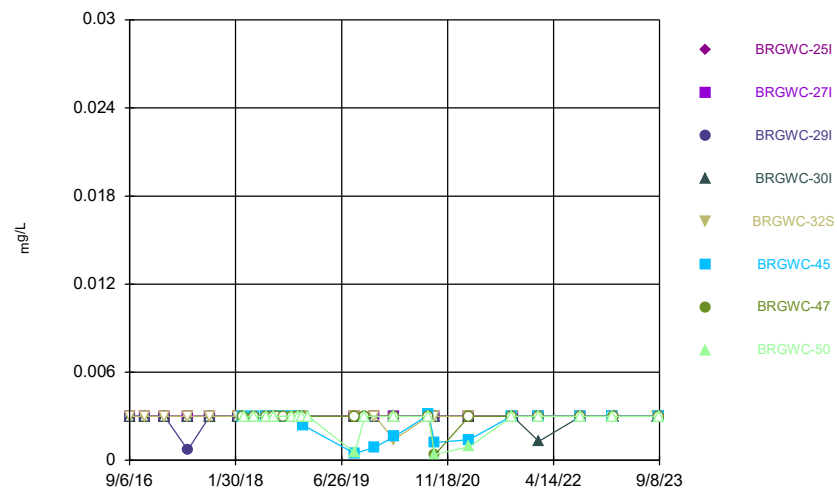
FIGURE A.

Time Series



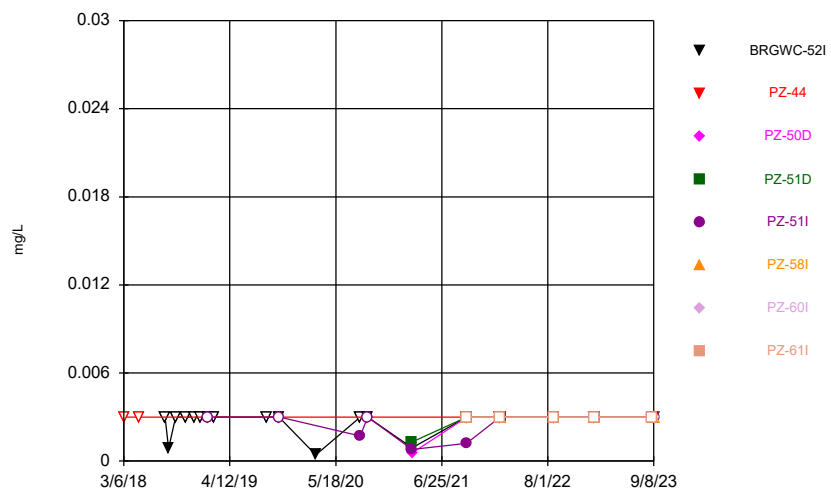
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Plant Branch Data: Plant Branch AP

Time Series



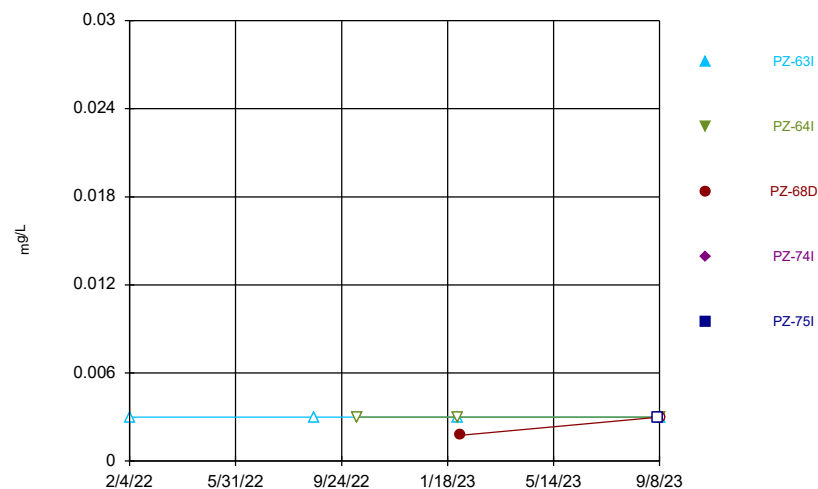
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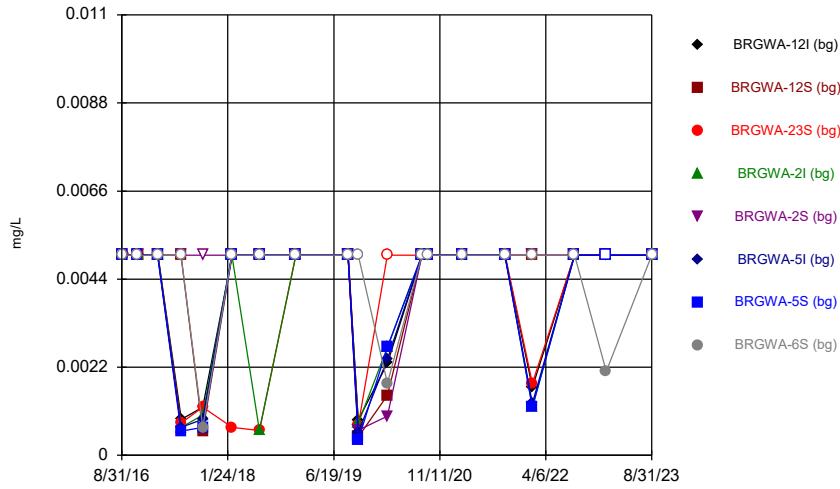
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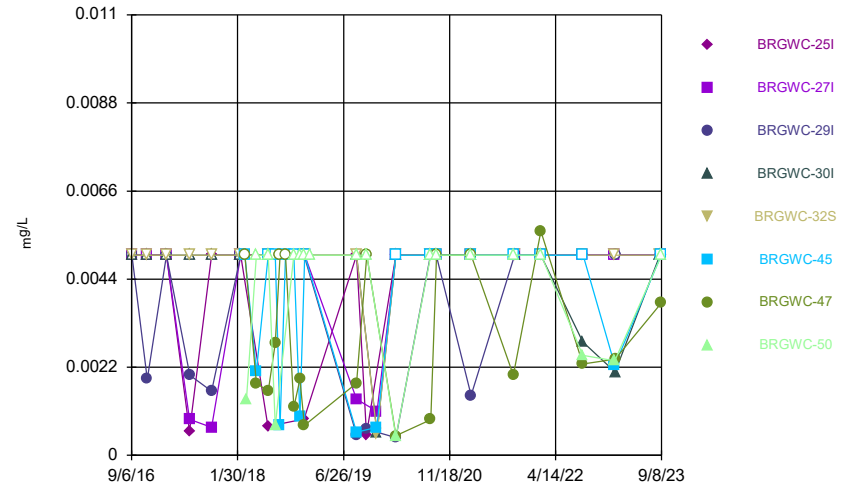
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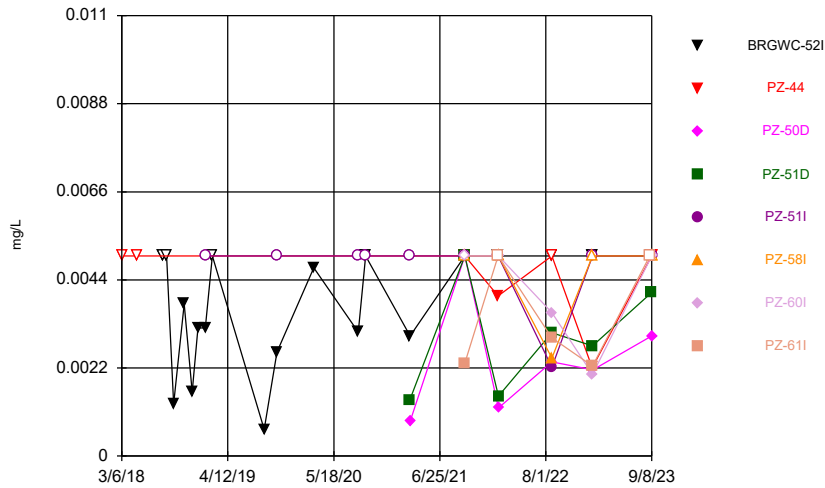
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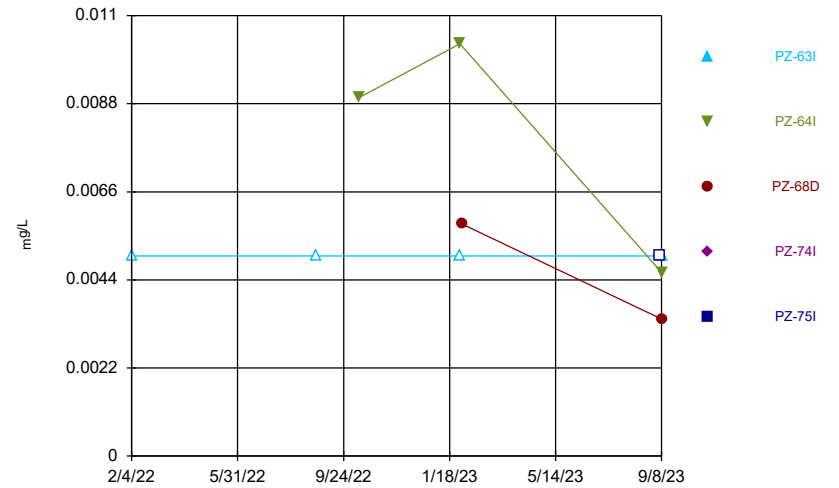
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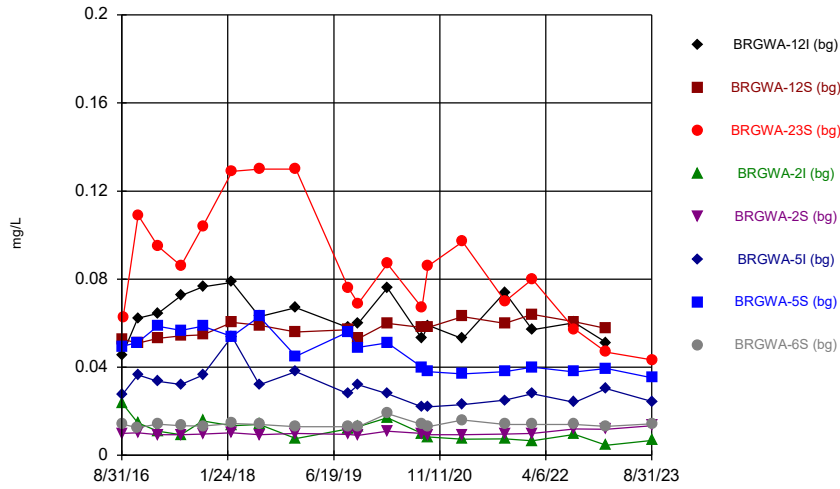
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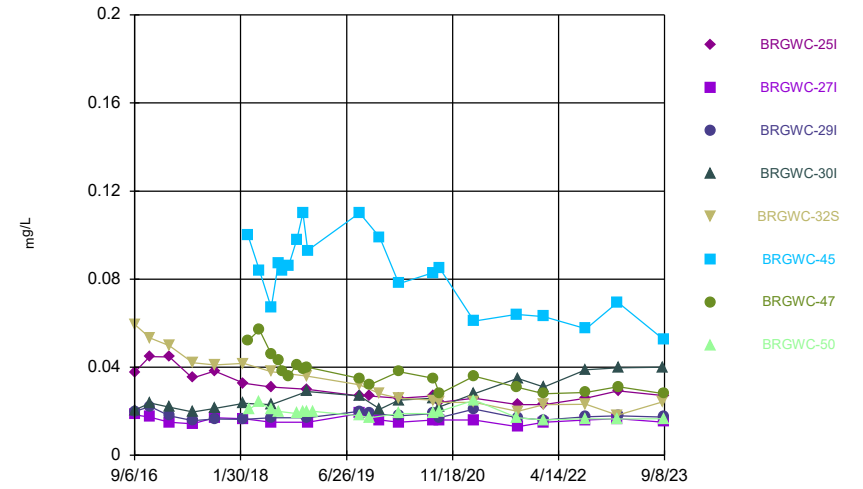
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Time Series



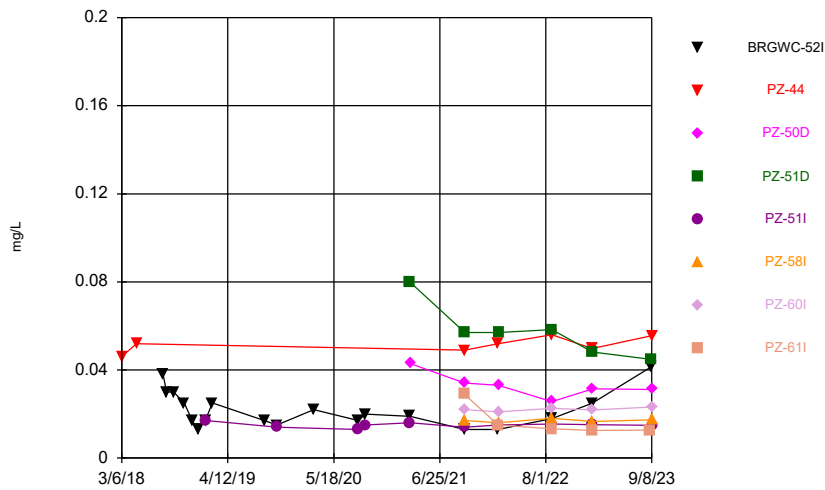
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Time Series



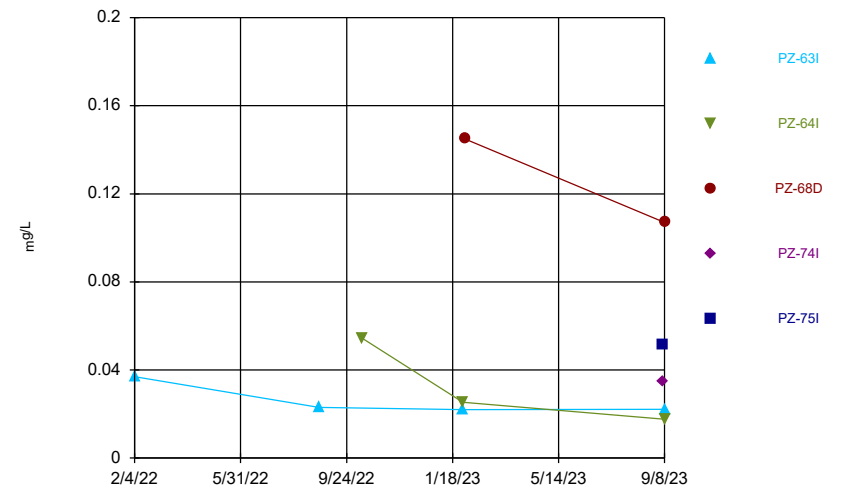
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Time Series



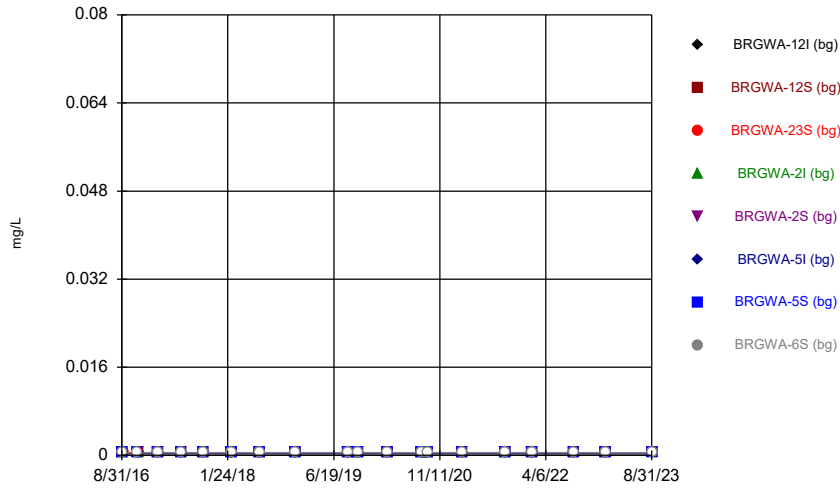
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Time Series



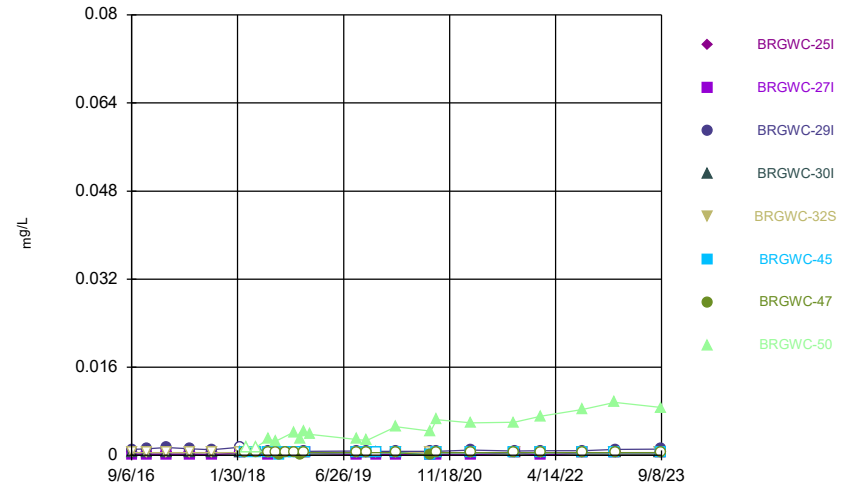
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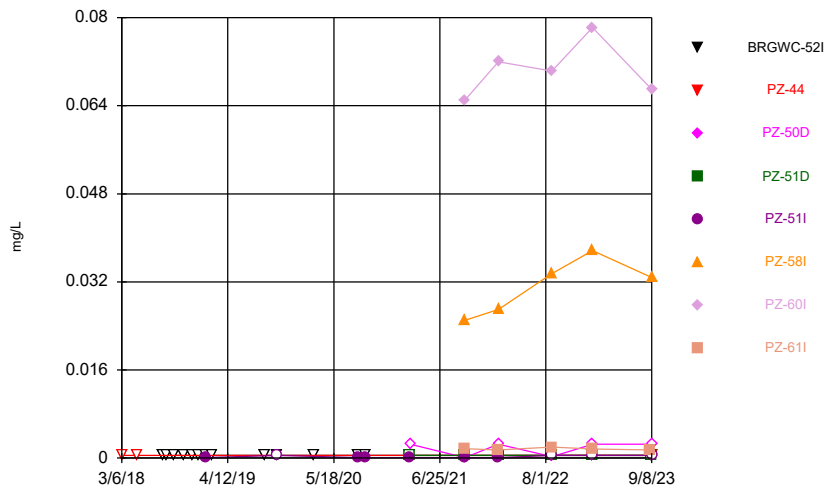
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Time Series



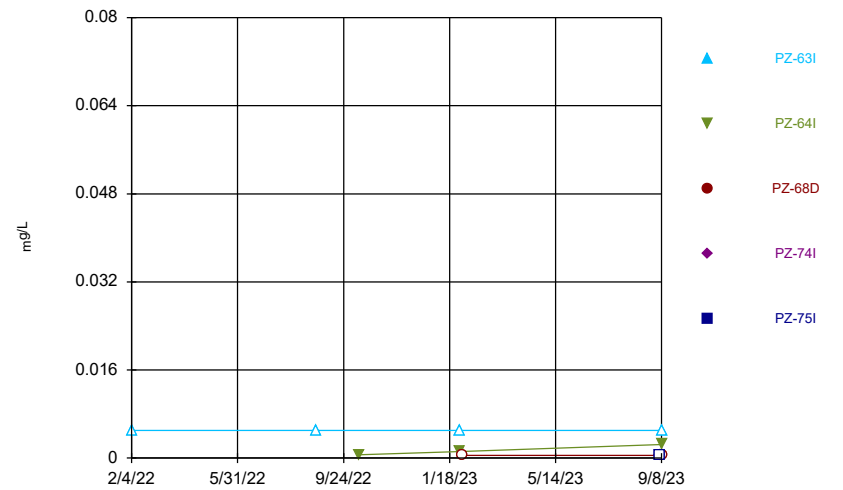
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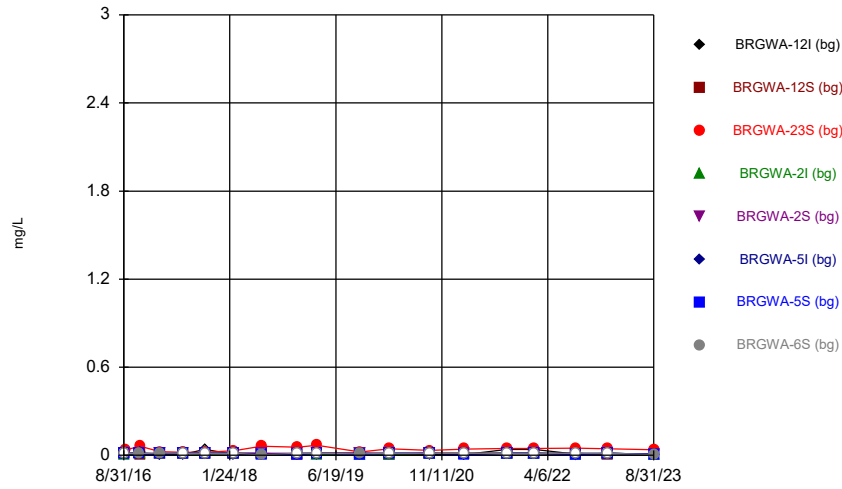
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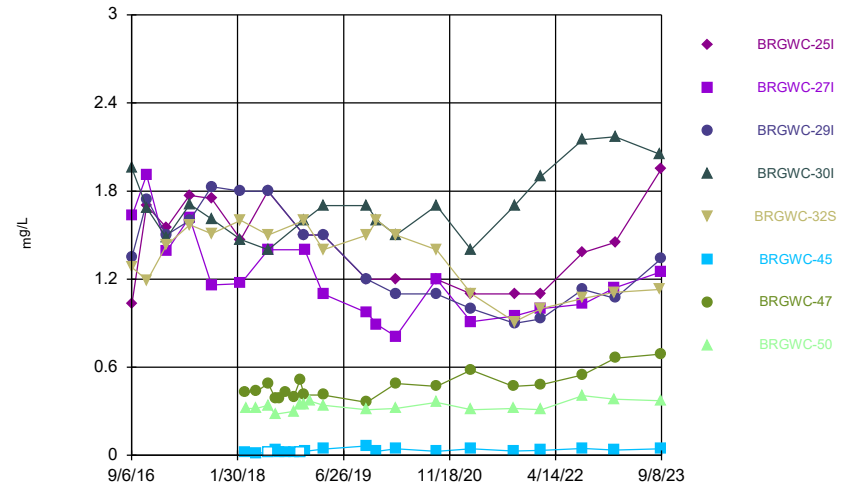
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Time Series



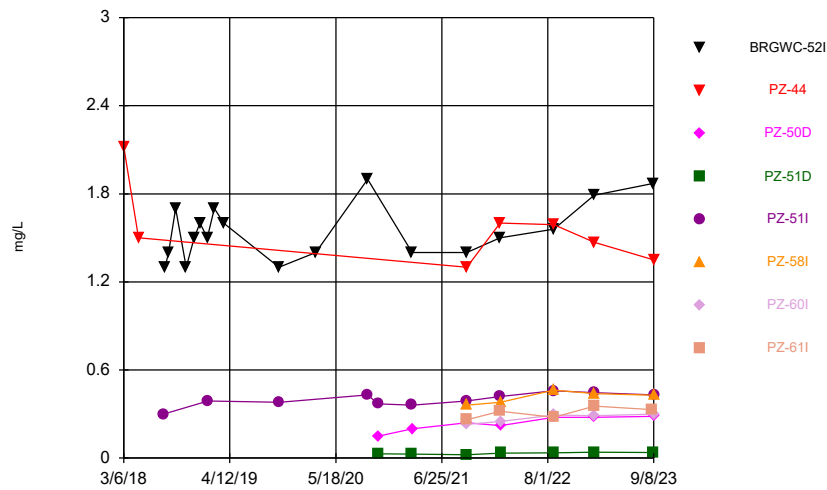
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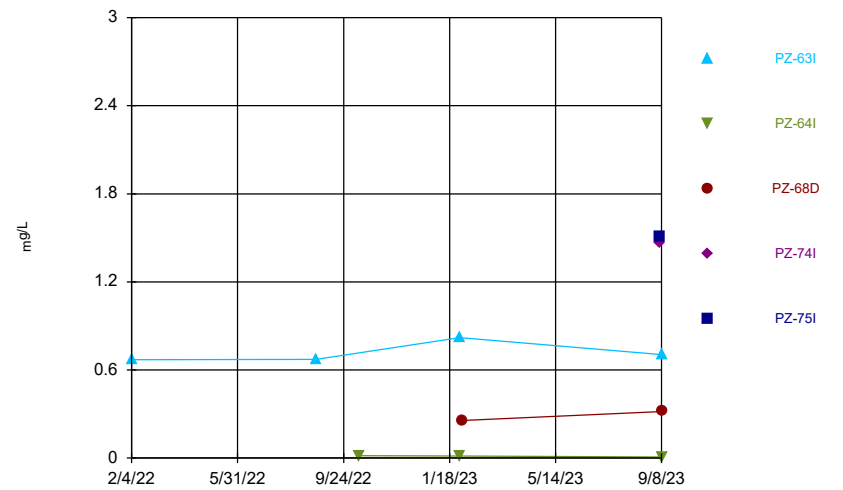
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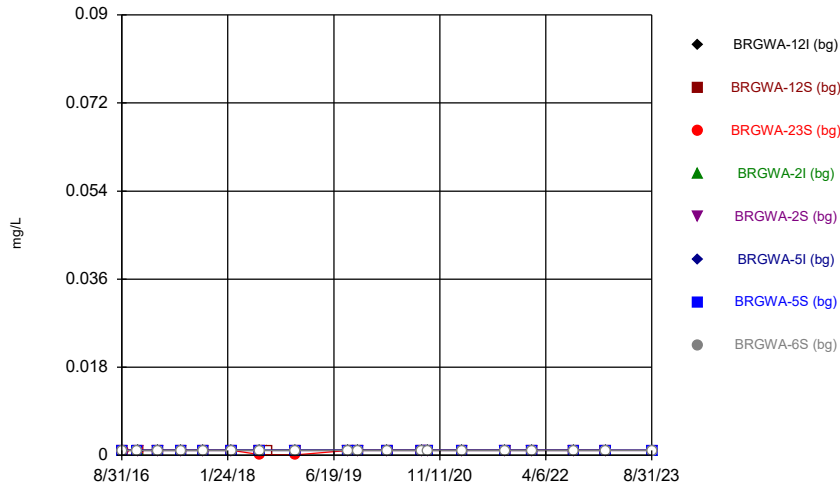
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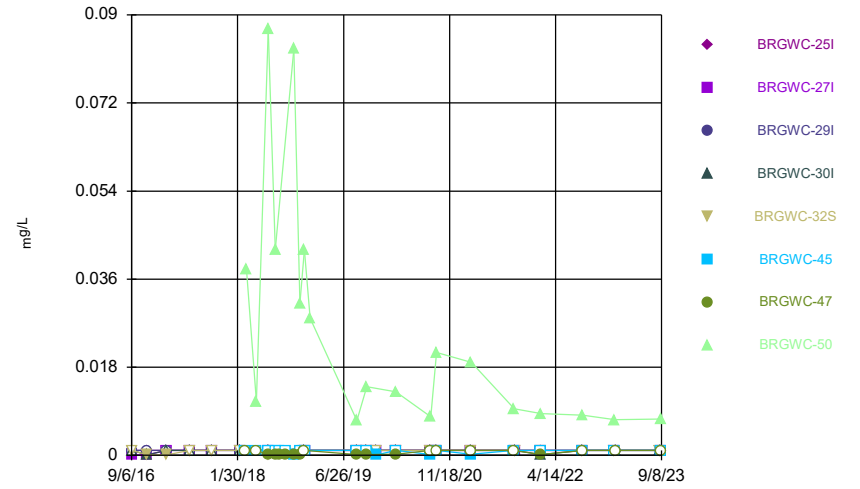
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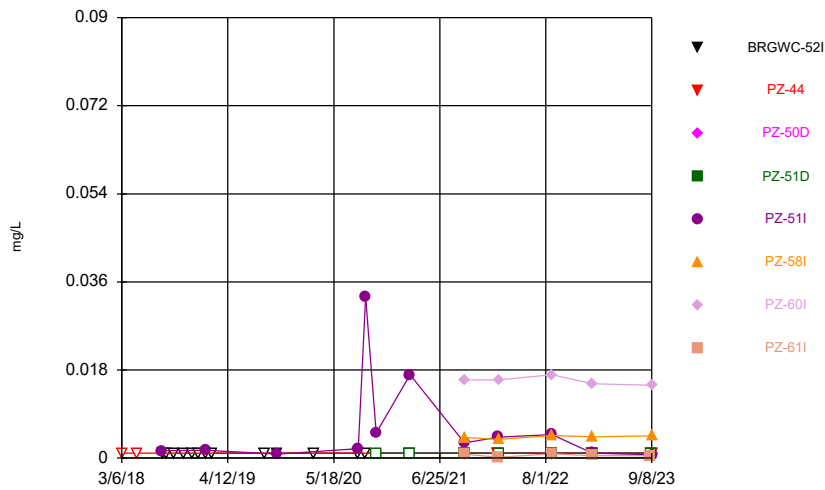
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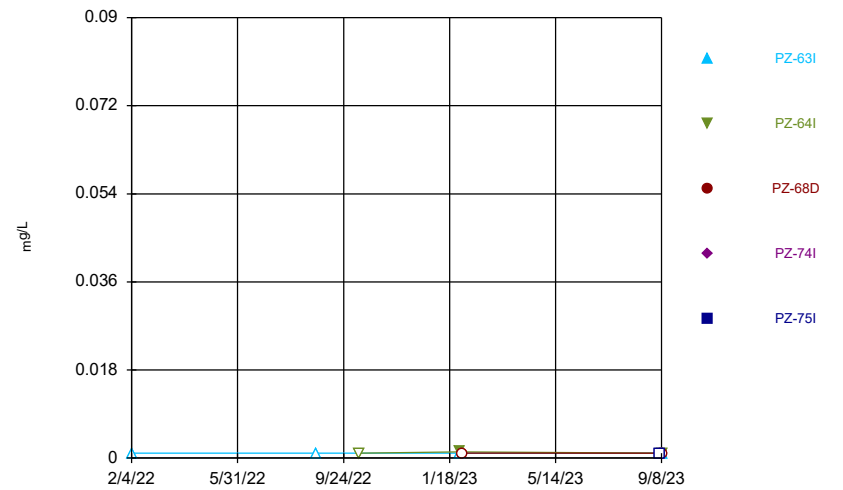
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Time Series



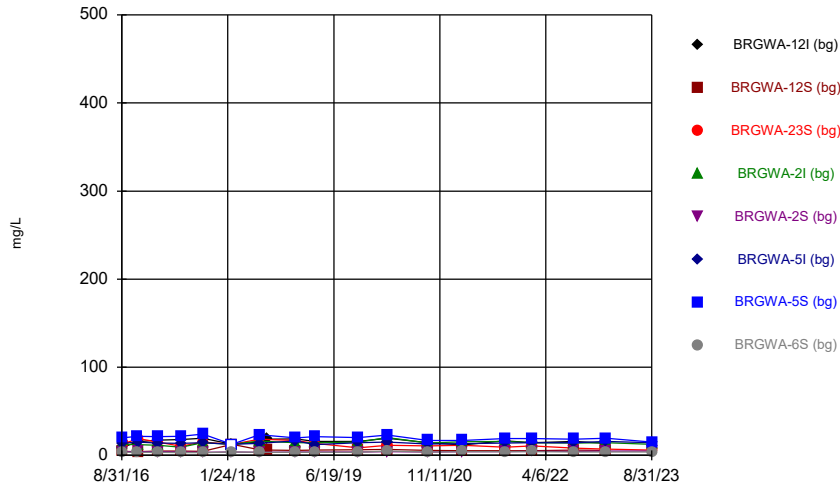
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Time Series



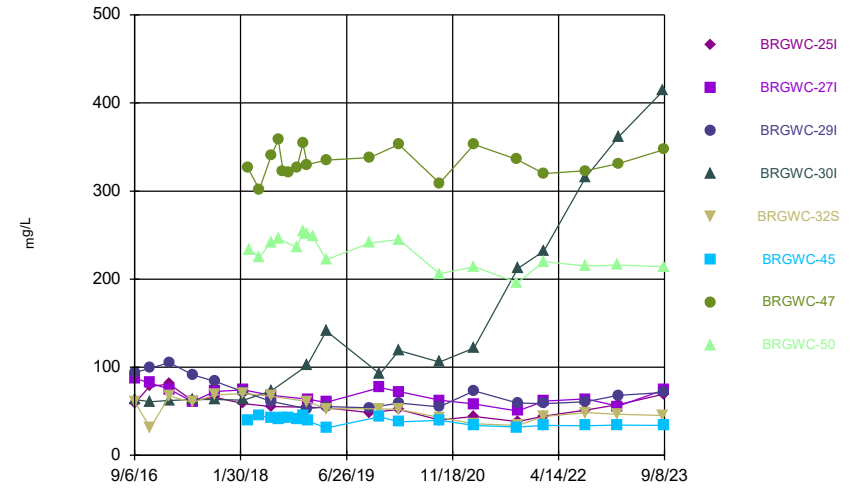
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Plant Branch Data: Plant Branch AP

Time Series



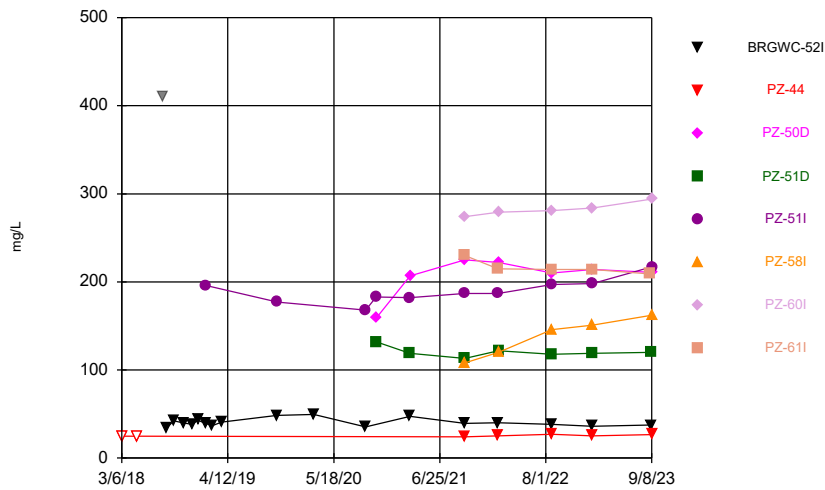
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Plant Branch Data: Plant Branch AP

Time Series



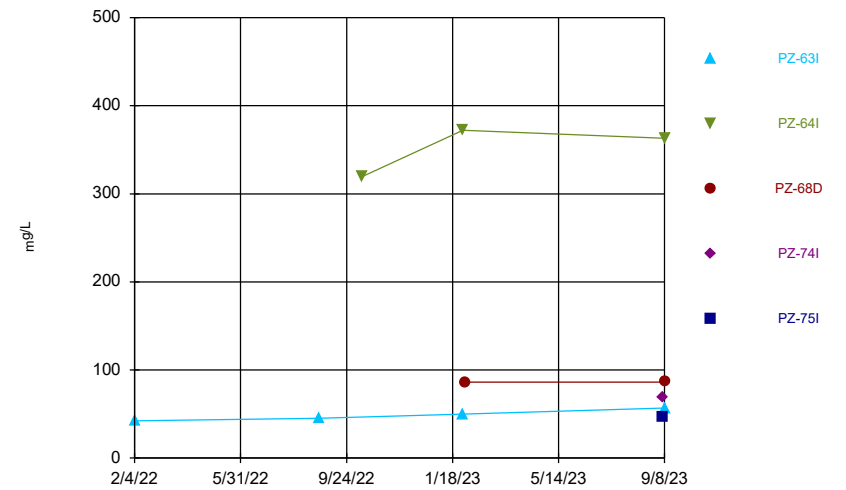
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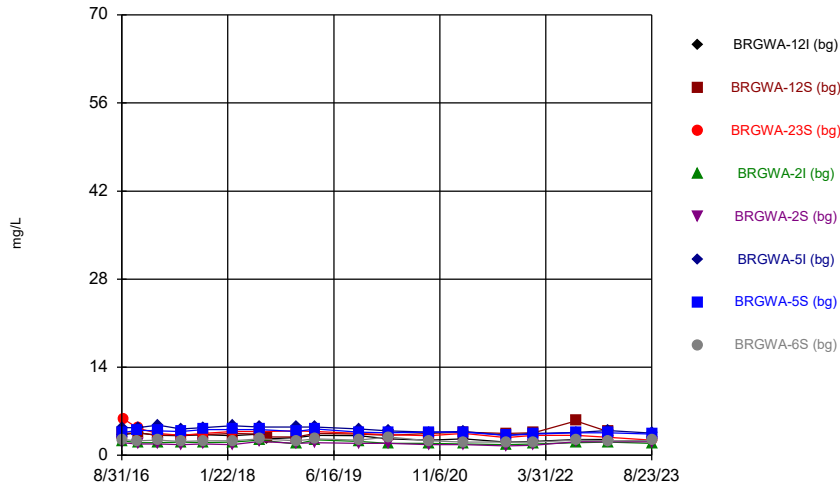
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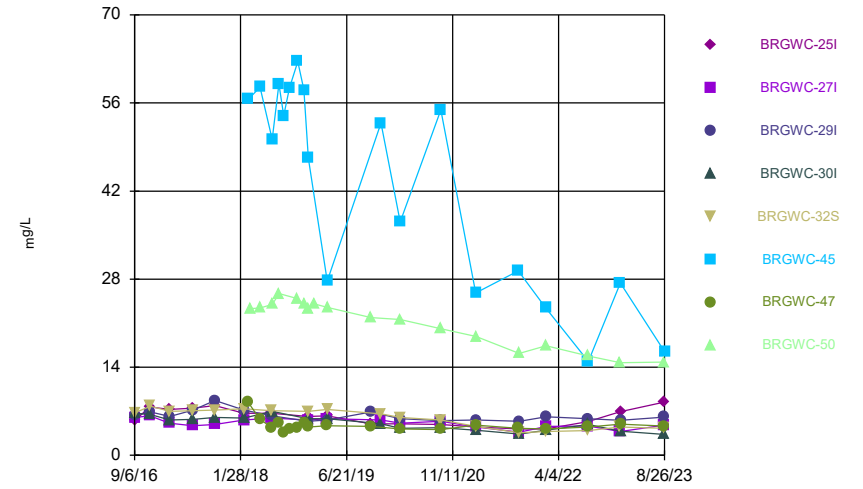
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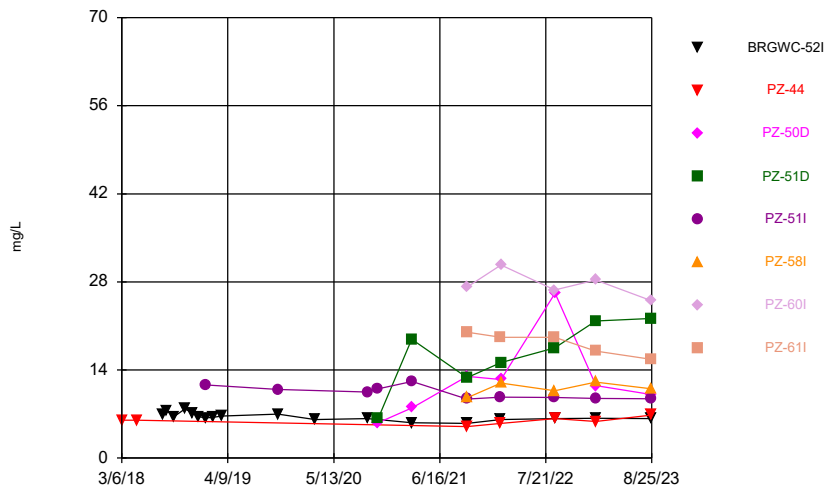
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Time Series



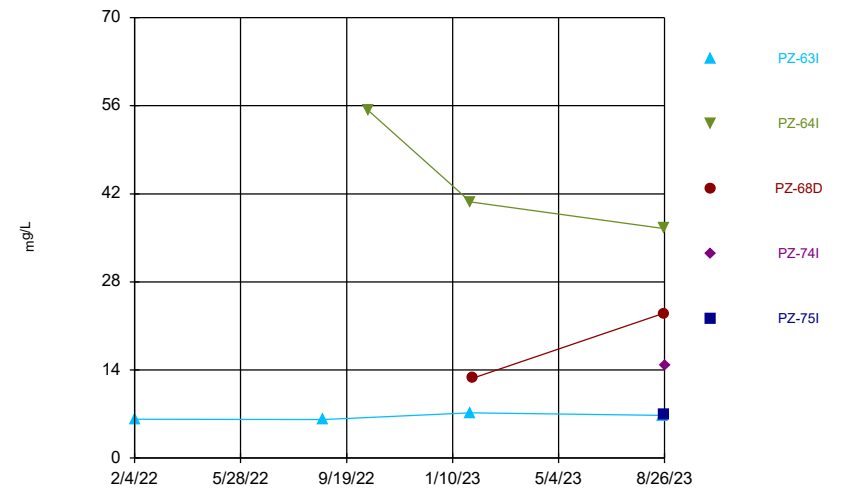
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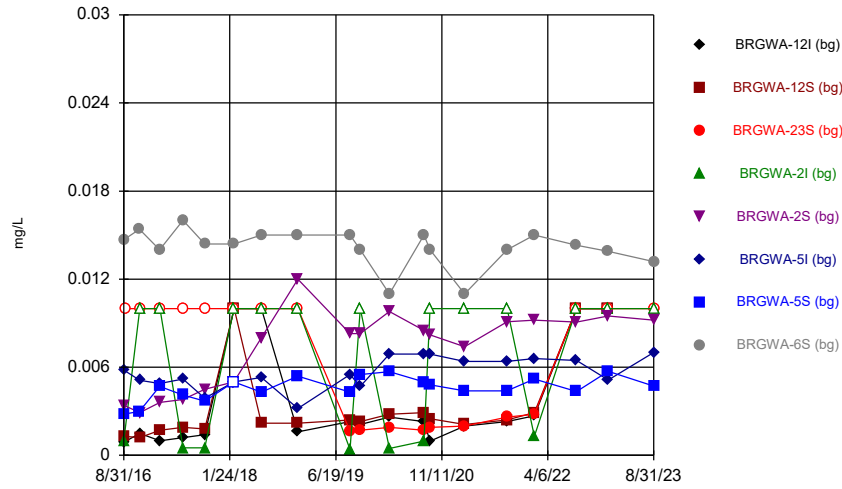
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Time Series



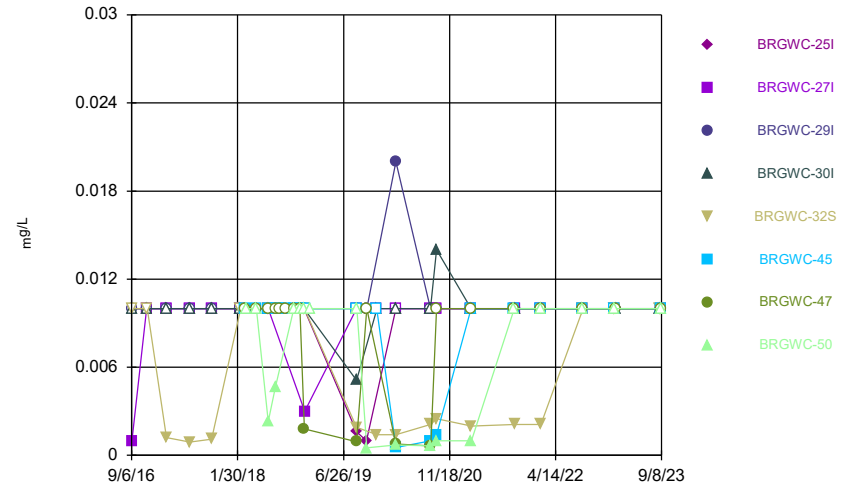
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Time Series



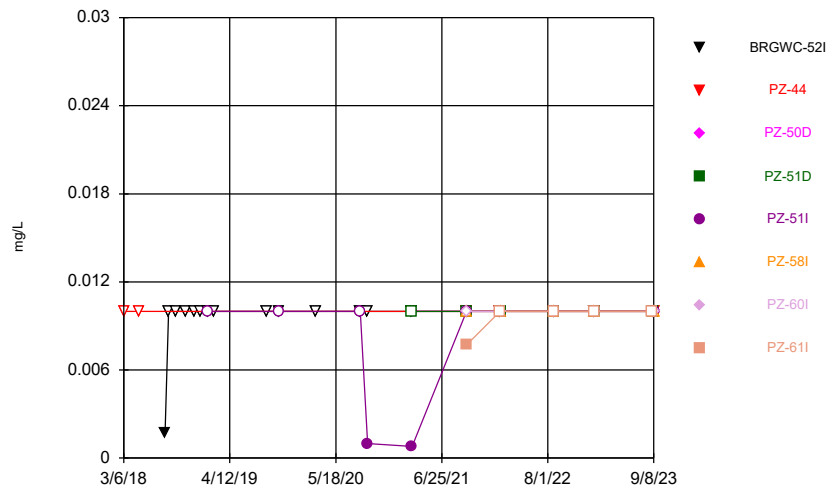
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Plant Branch Data: Plant Branch AP

Time Series



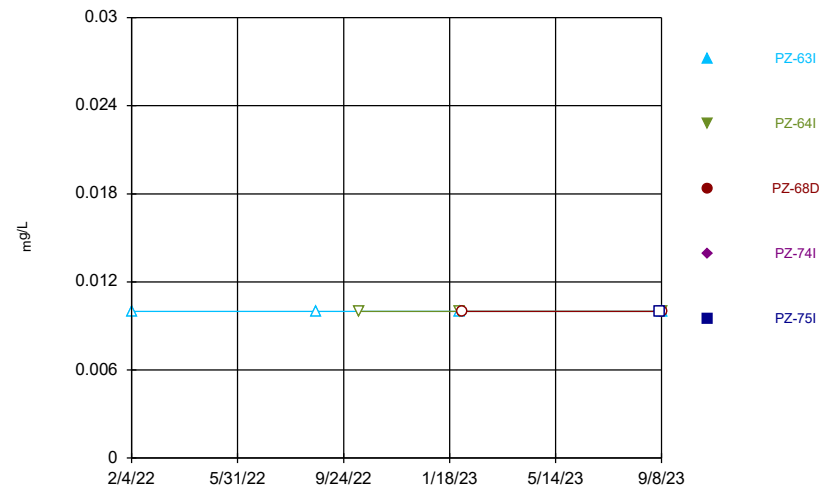
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Time Series



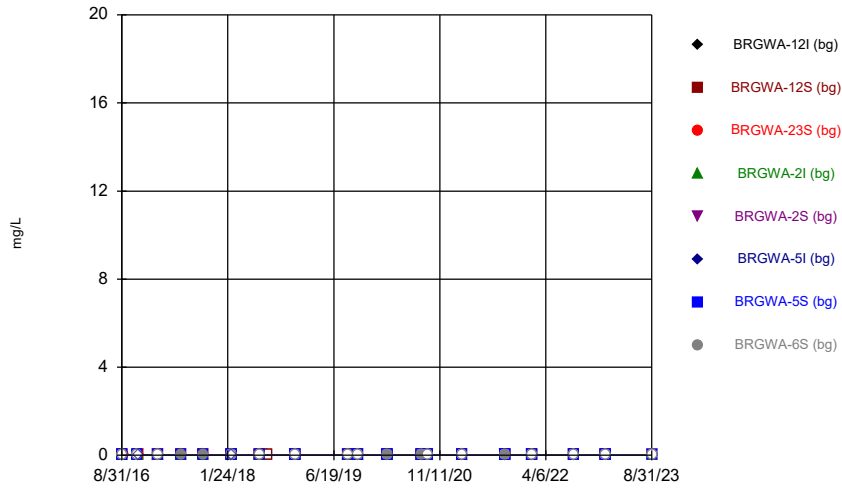
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Time Series



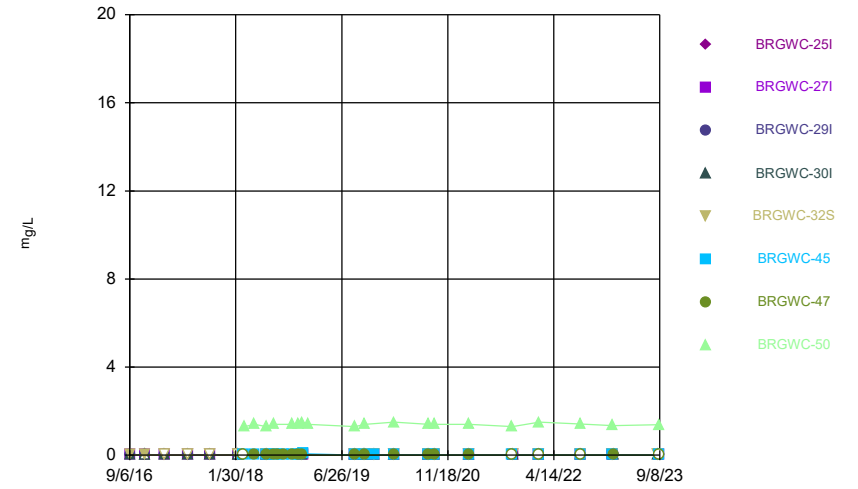
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Plant Branch Data: Plant Branch AP

Time Series



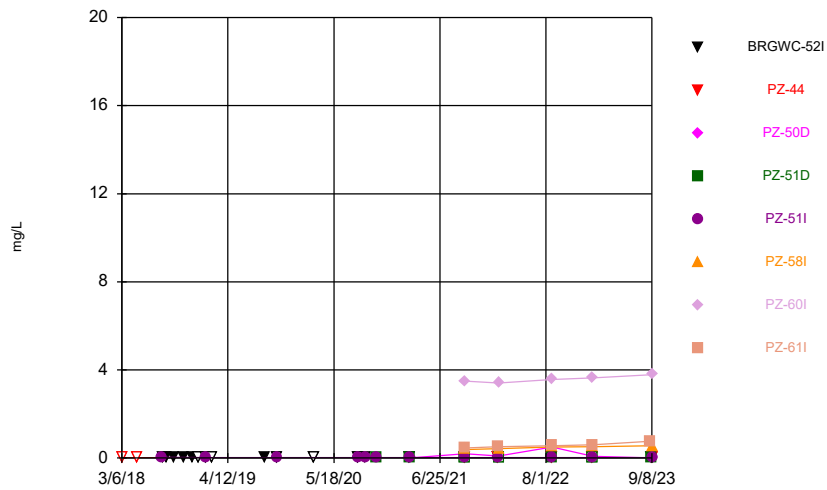
Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



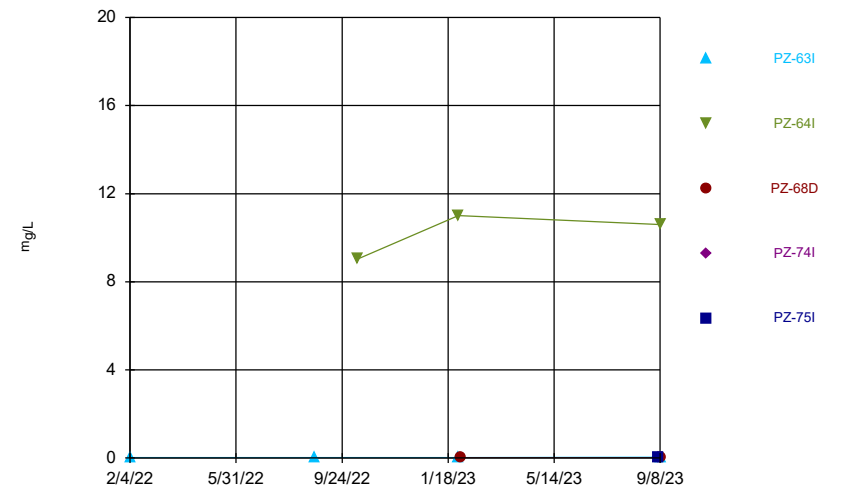
Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



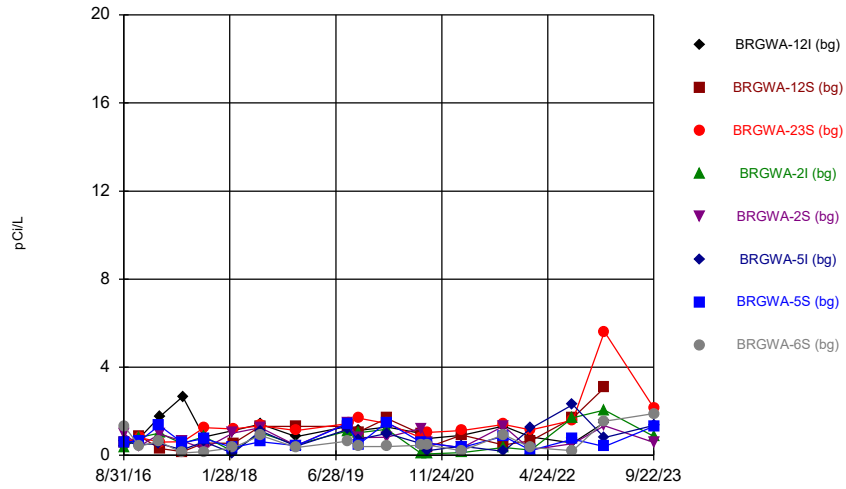
Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



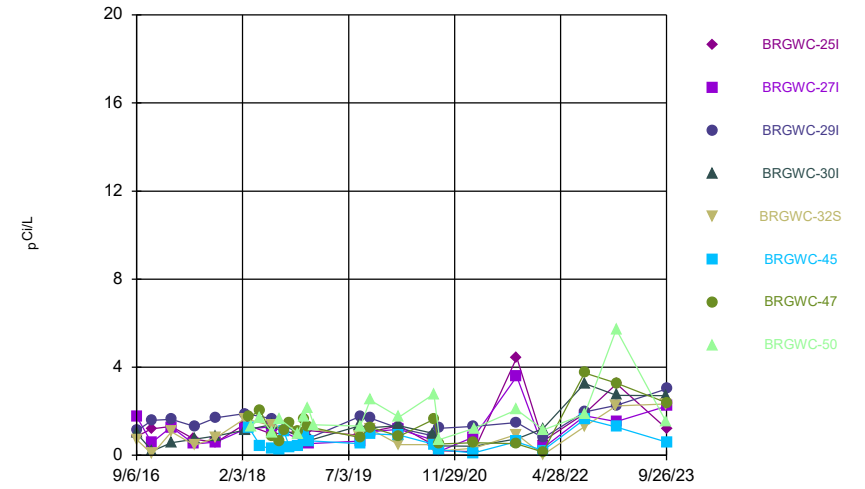
Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



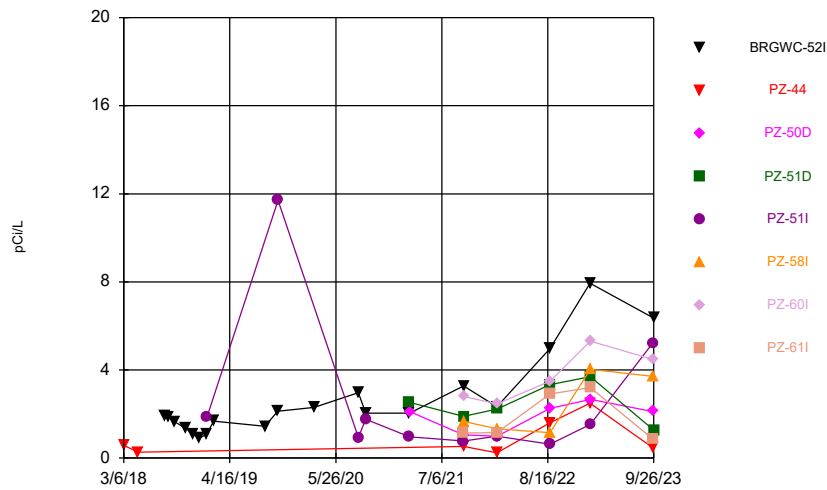
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Time Series



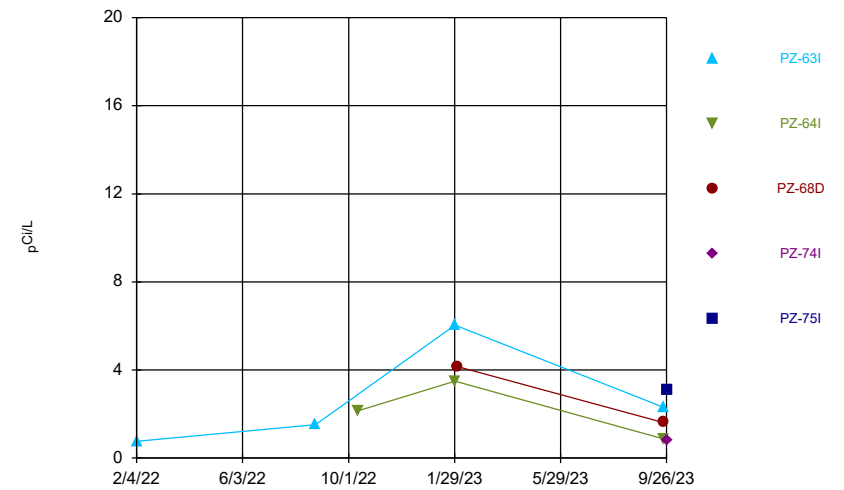
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Time Series



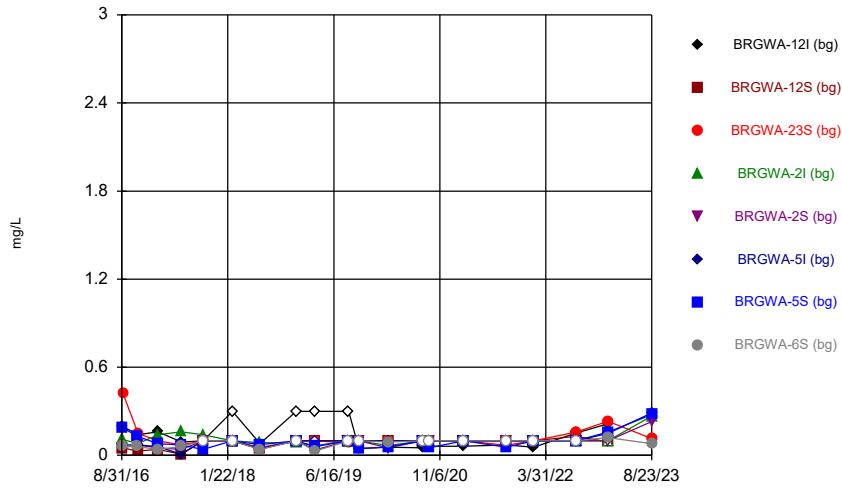
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Time Series



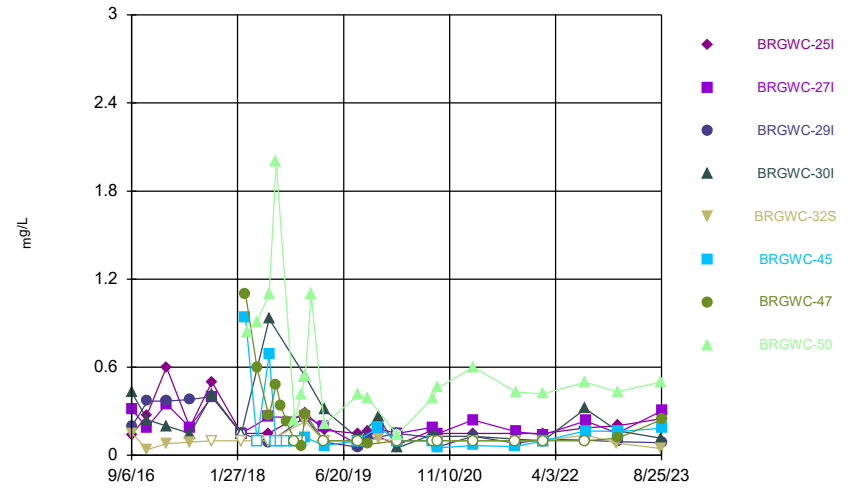
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Time Series



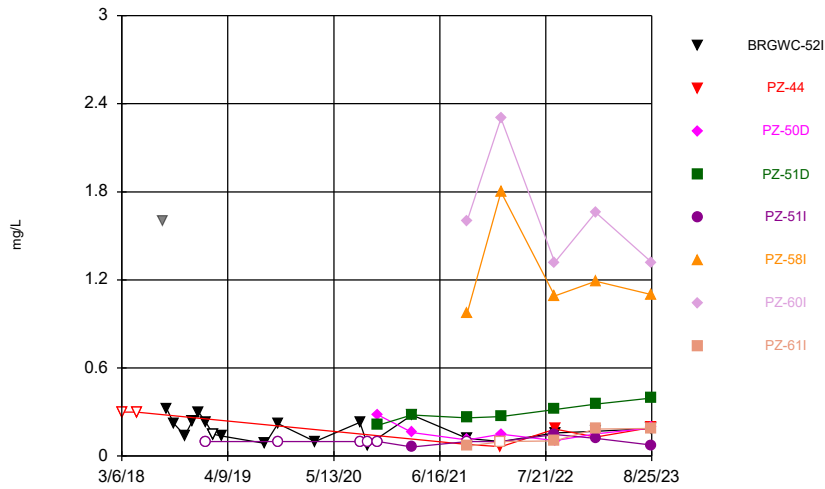
Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



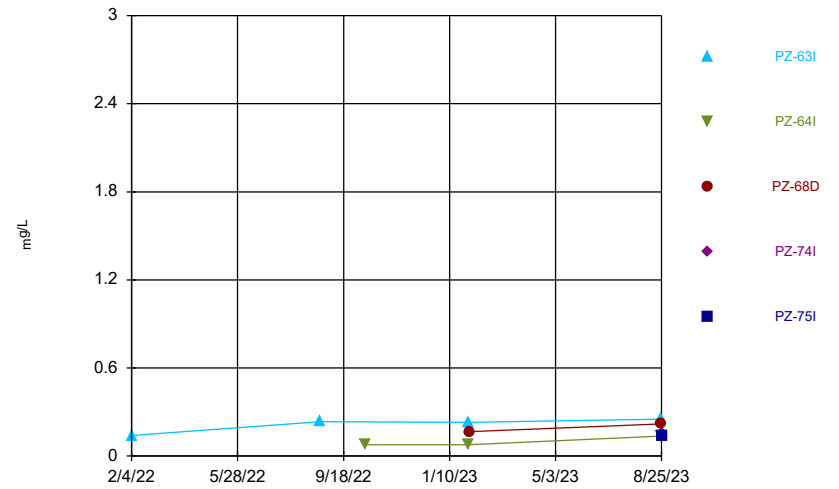
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Plant Branch Data: Plant Branch AP

Time Series



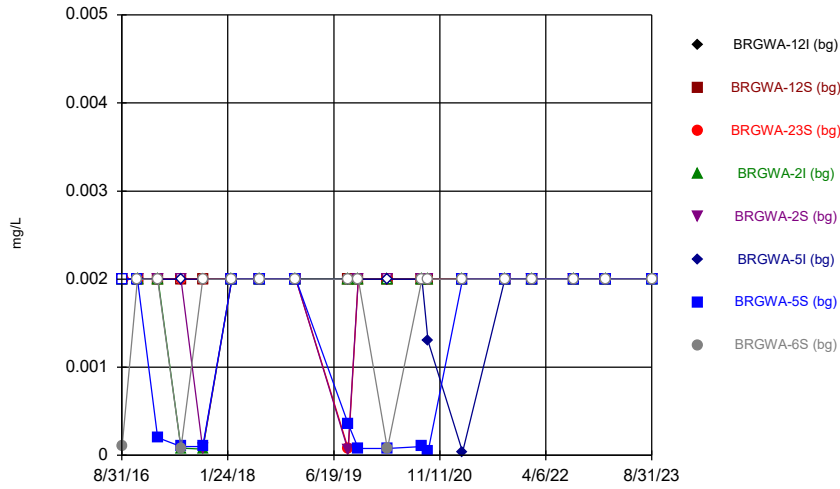
Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



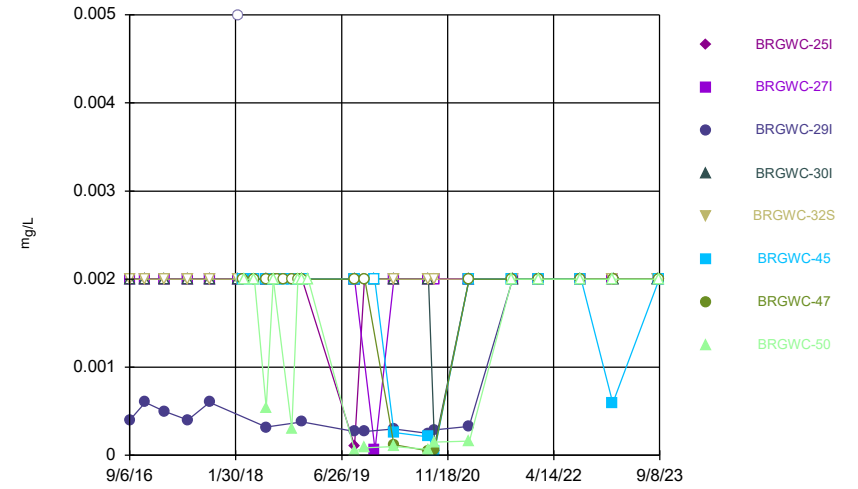
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Plant Branch Data: Plant Branch AP

Time Series



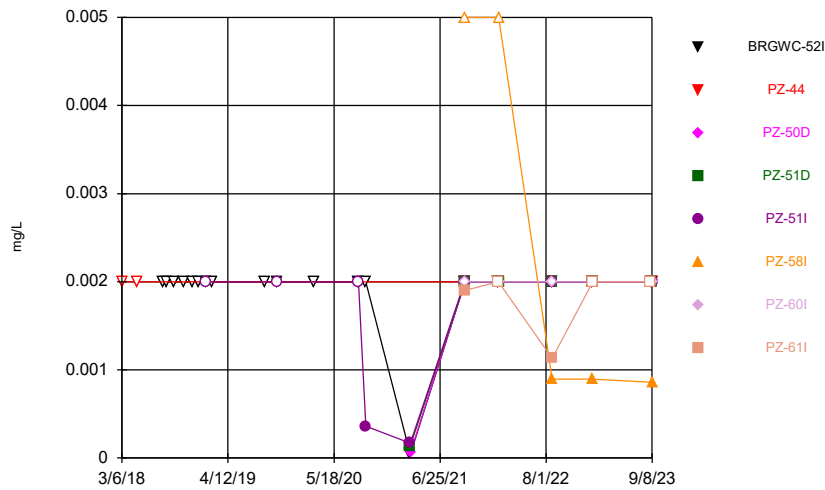
Constituent: Lead Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



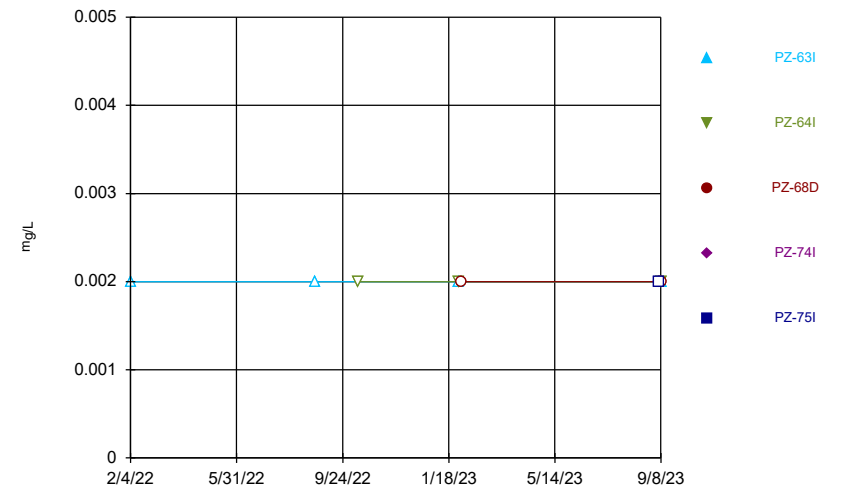
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Plant Branch Data: Plant Branch AP

Time Series



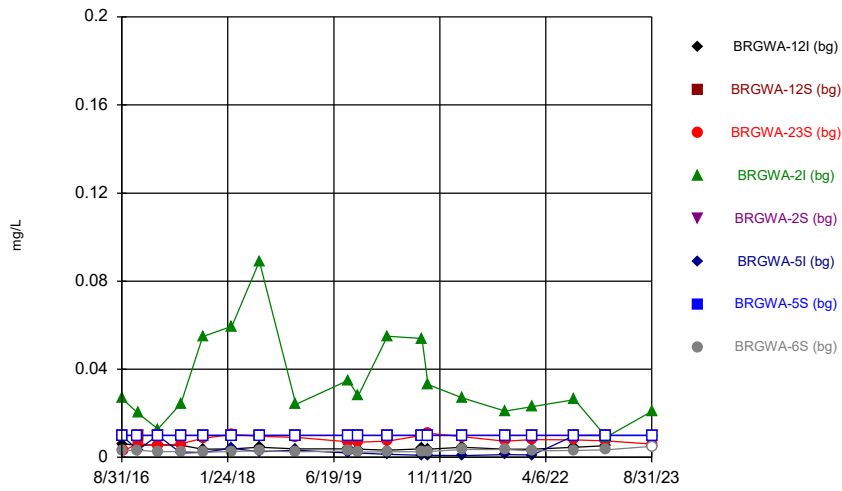
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Plant Branch Data: Plant Branch AP

Time Series



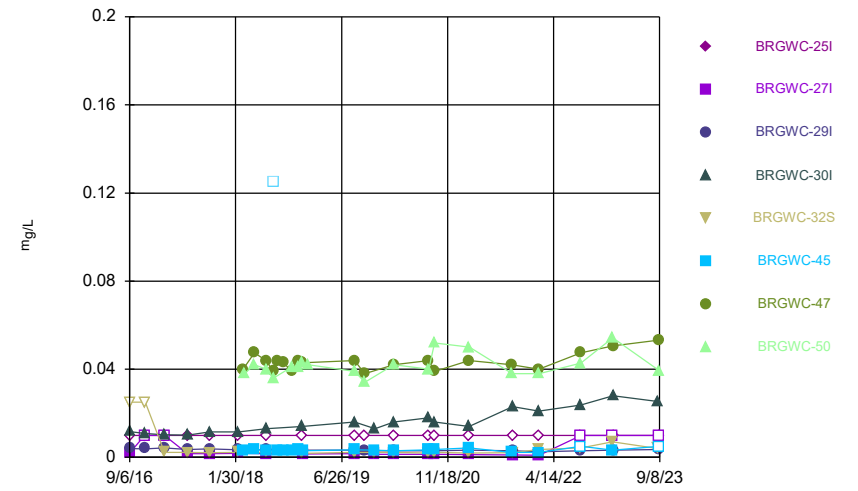
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Plant Branch Data: Plant Branch AP

Time Series



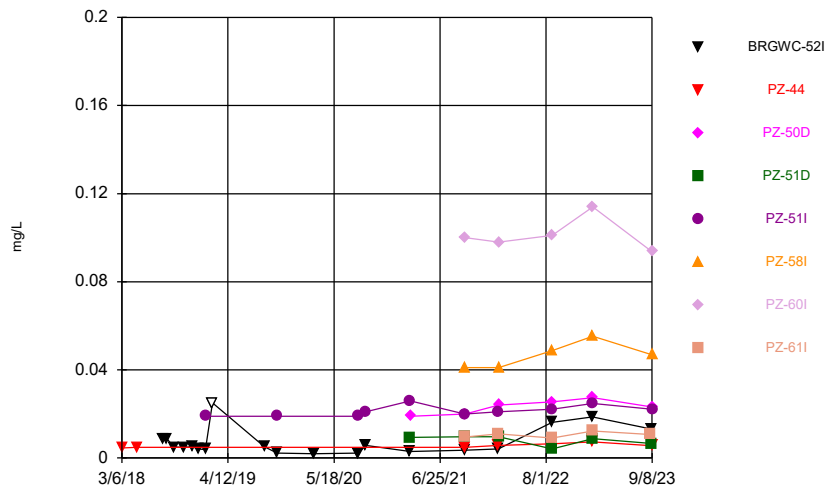
Constituent: Lithium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



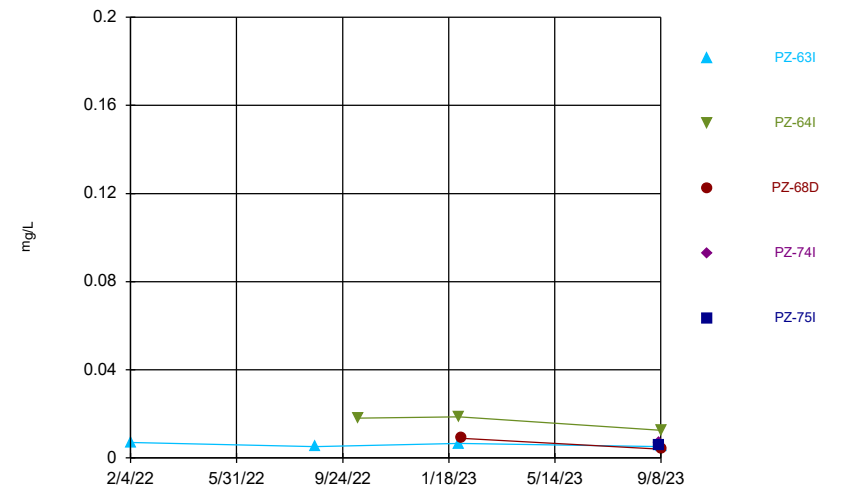
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Plant Branch Data: Plant Branch AP

Time Series



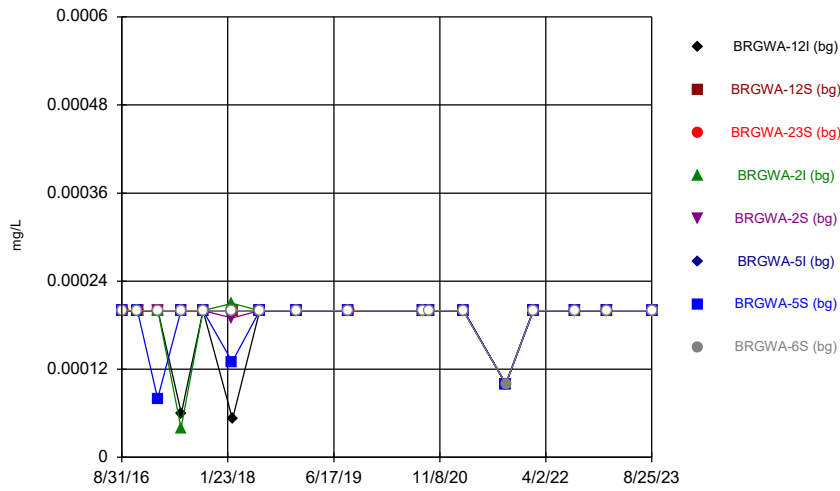
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Plant Branch Data: Plant Branch AP

Time Series



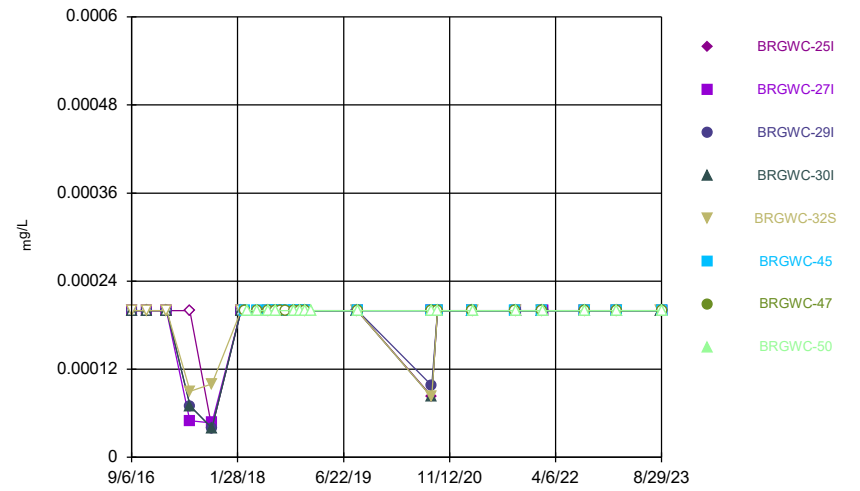
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Plant Branch Data: Plant Branch AP

Time Series



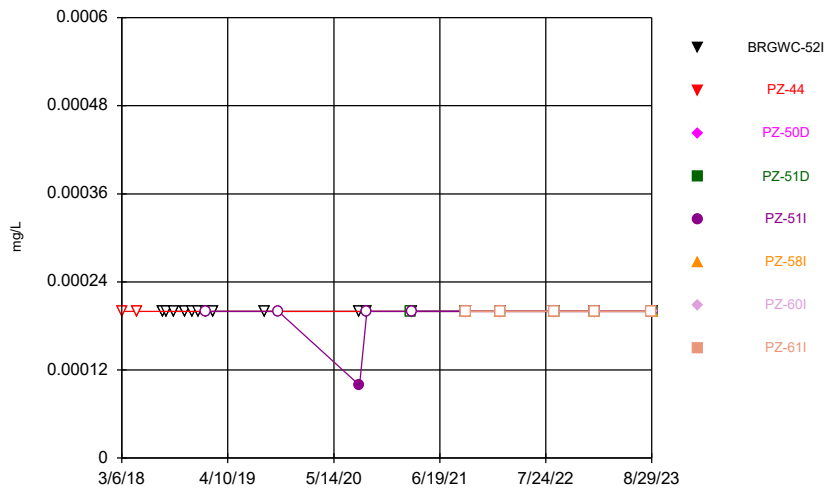
Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



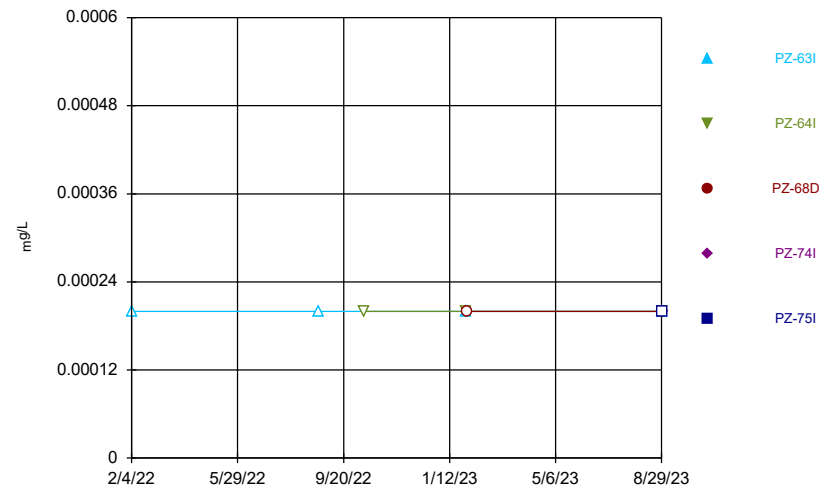
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Plant Branch Data: Plant Branch AP

Time Series



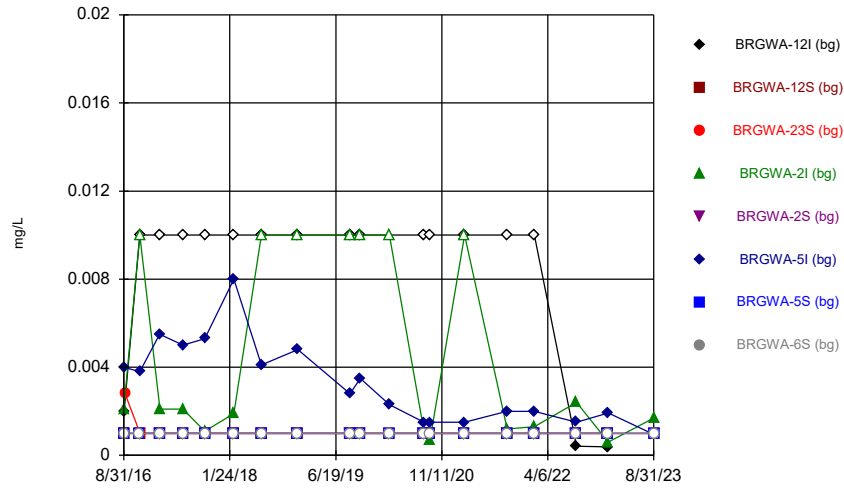
Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



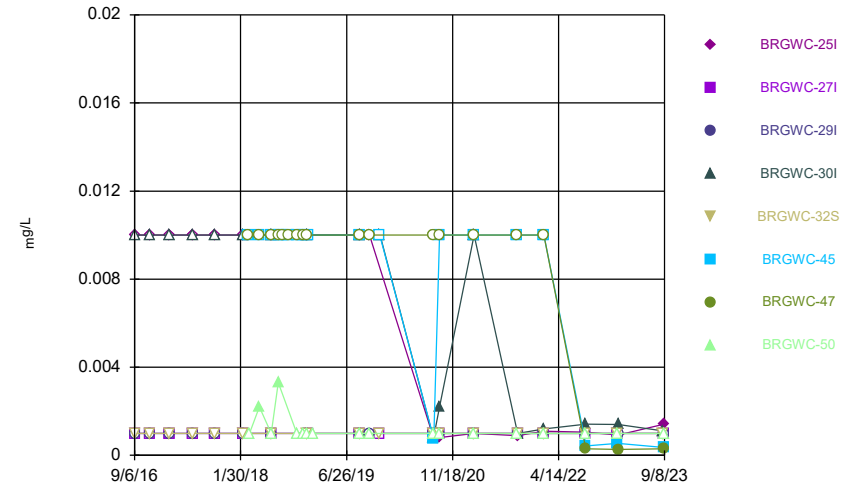
Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



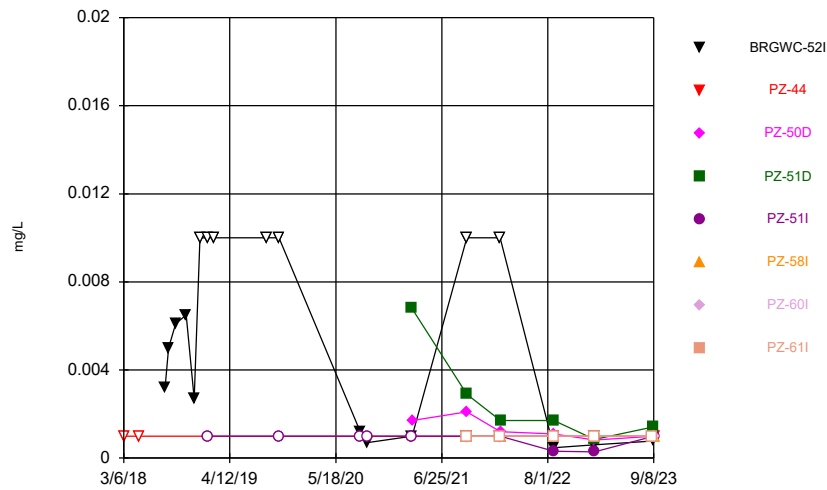
Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



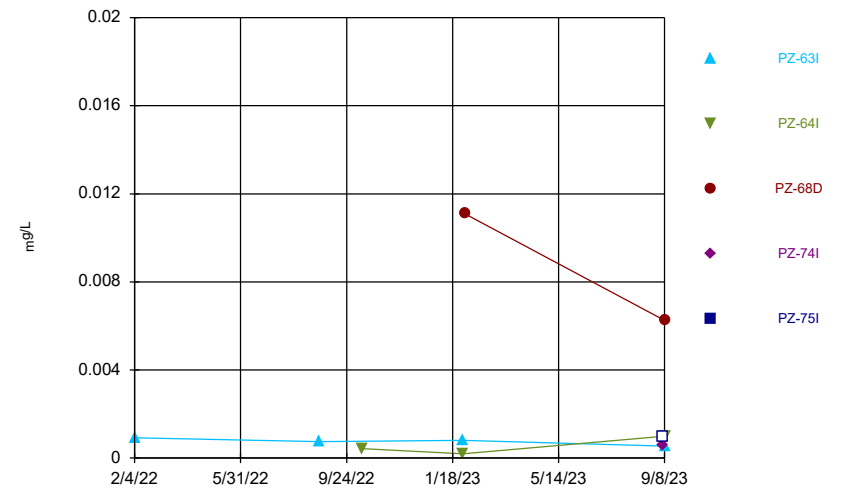
Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



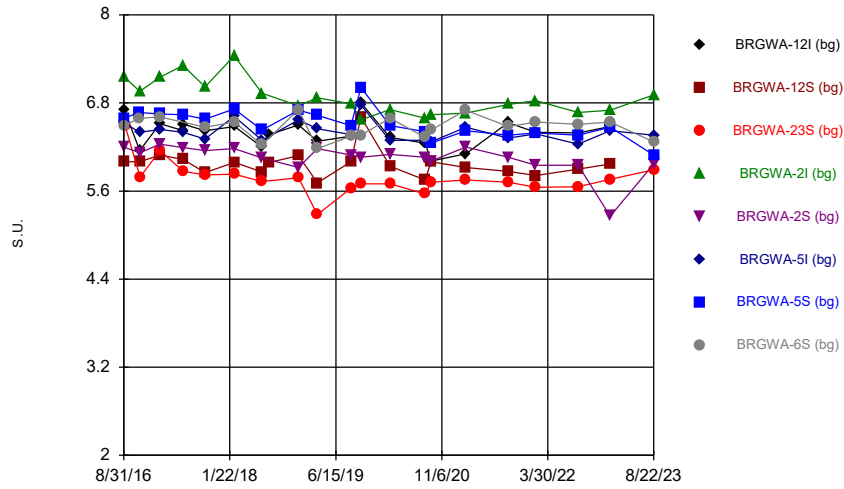
Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



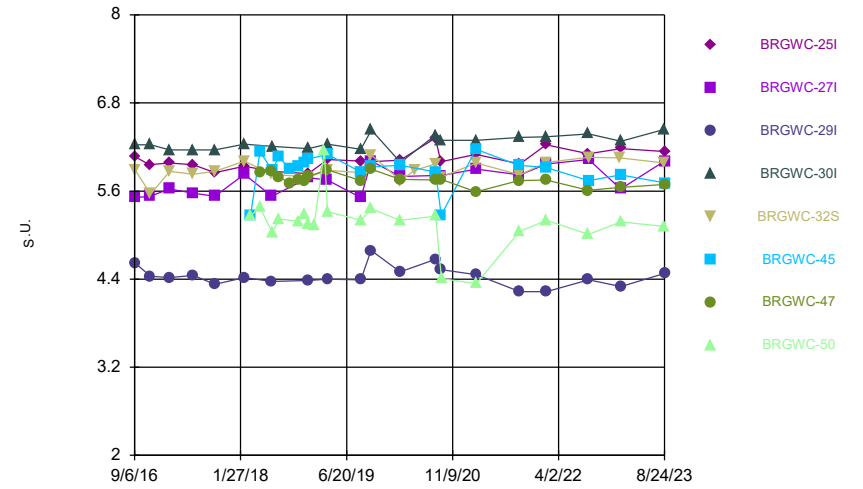
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Plant Branch Data: Plant Branch AP

Time Series



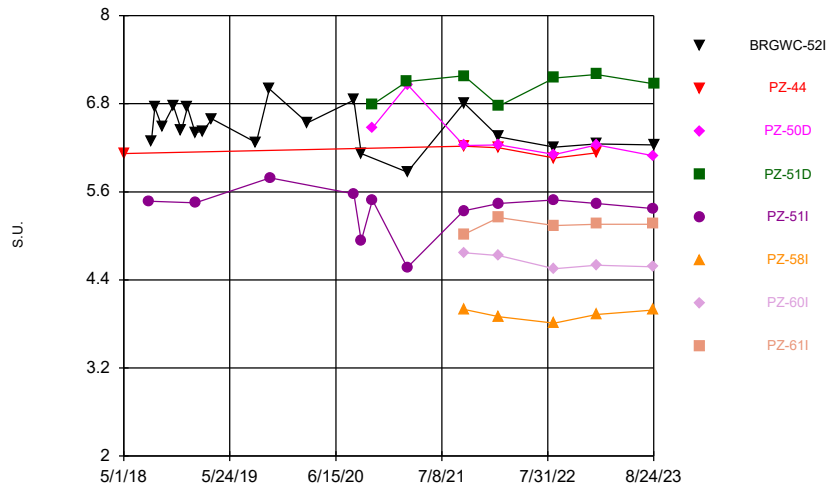
Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



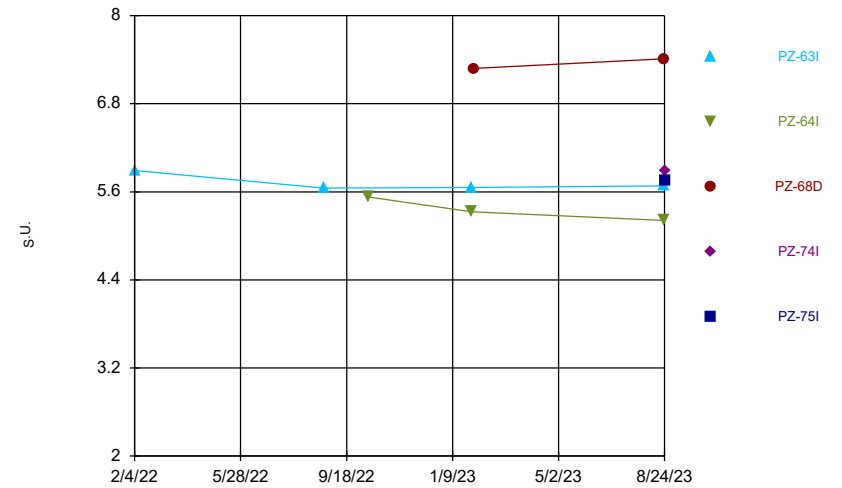
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Plant Branch Data: Plant Branch AP

Time Series



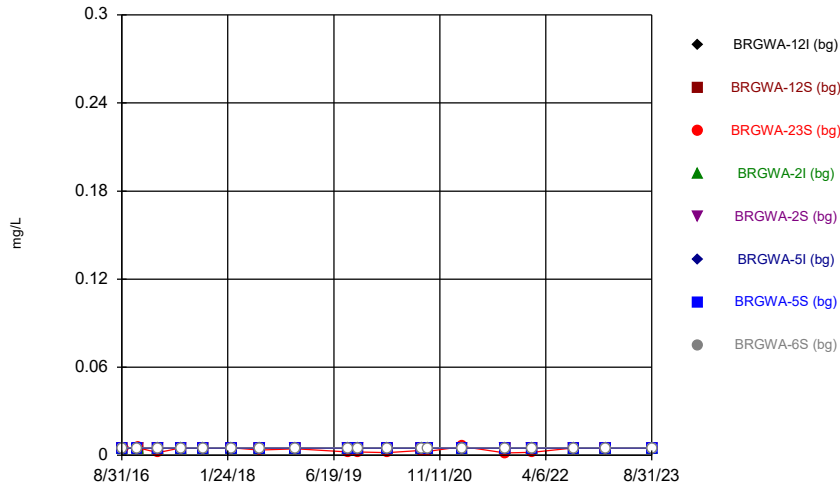
Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



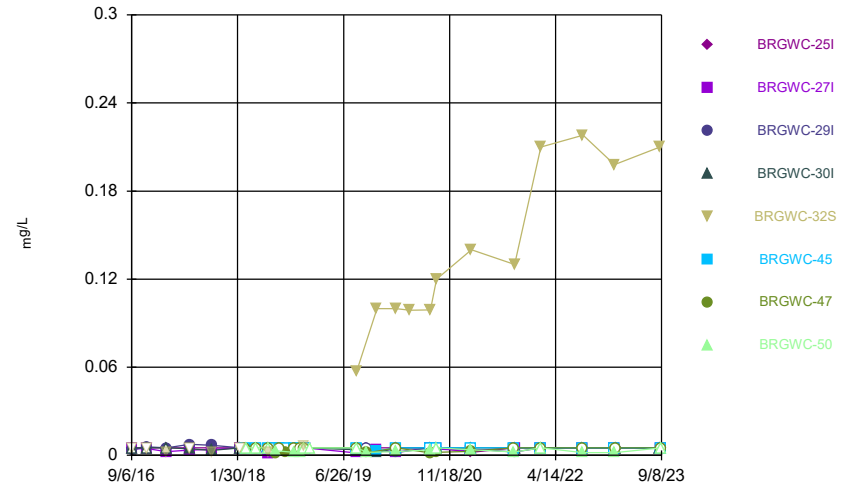
Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



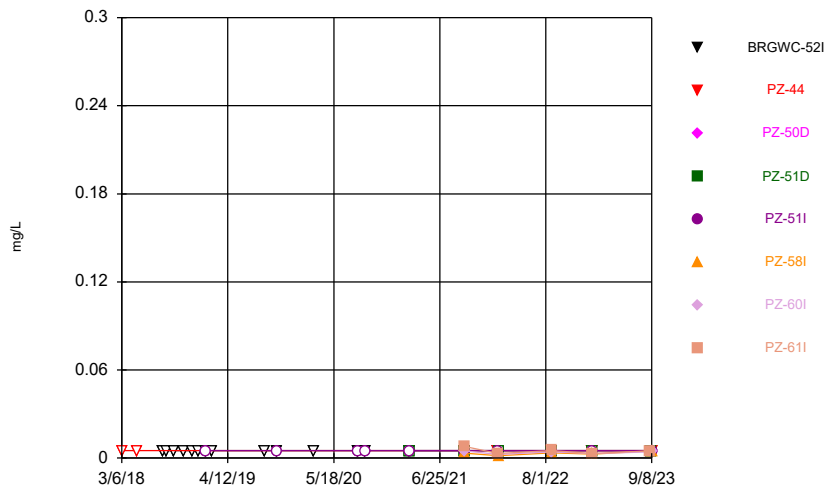
Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



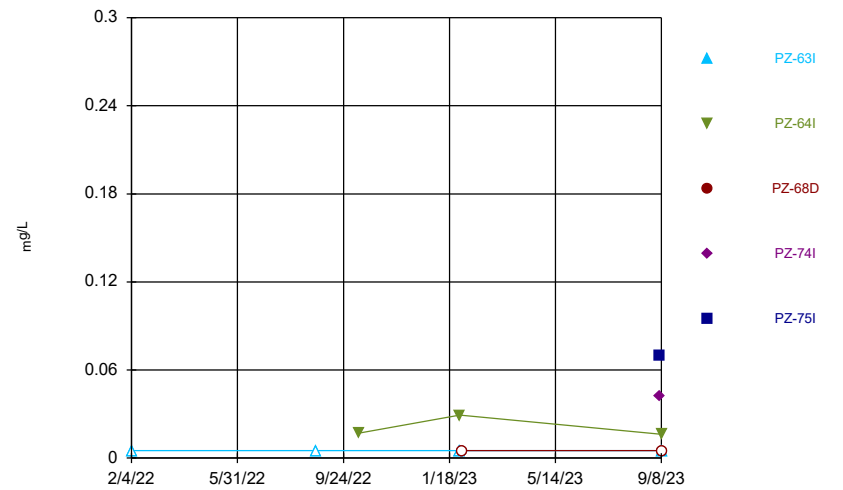
Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



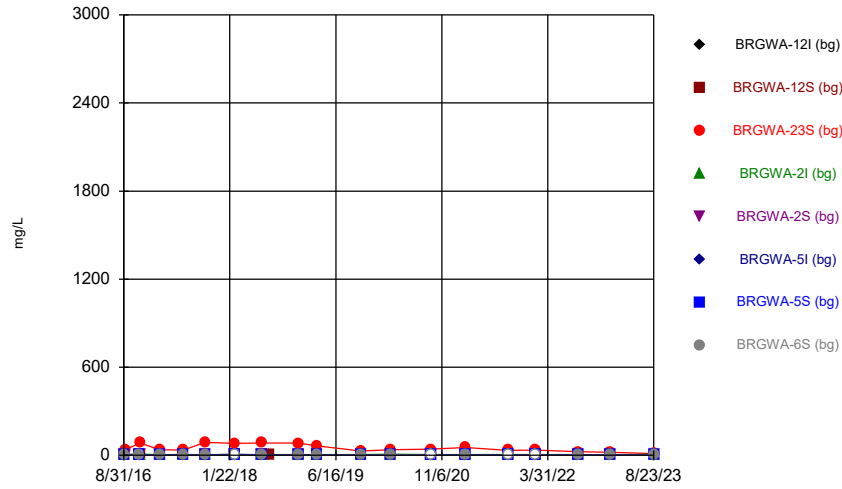
Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



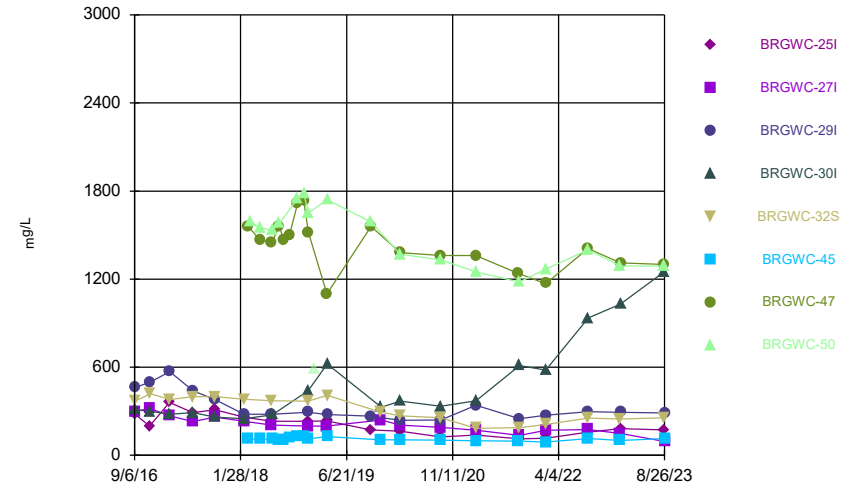
Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



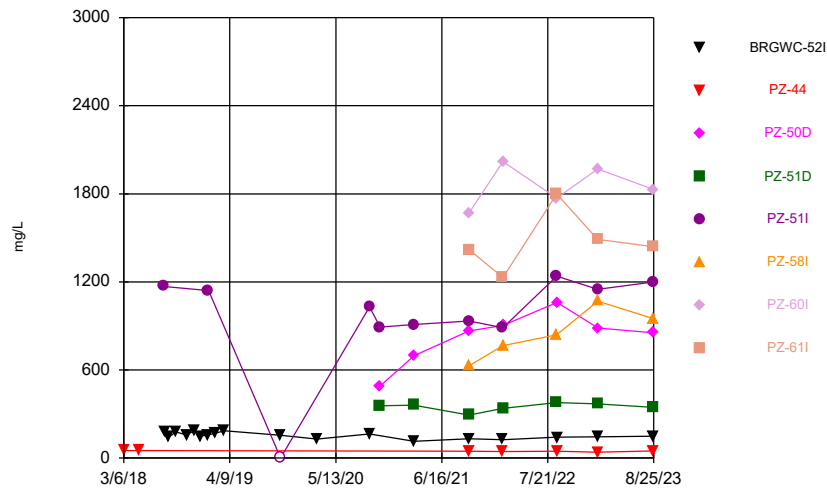
Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



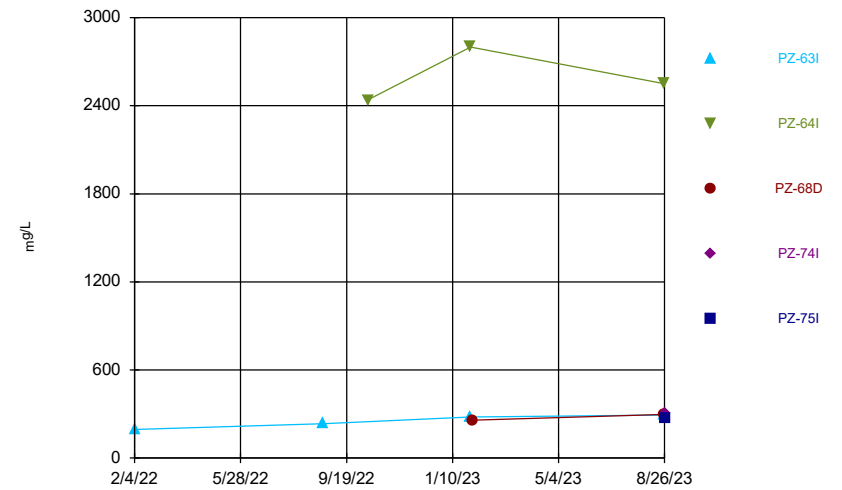
Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



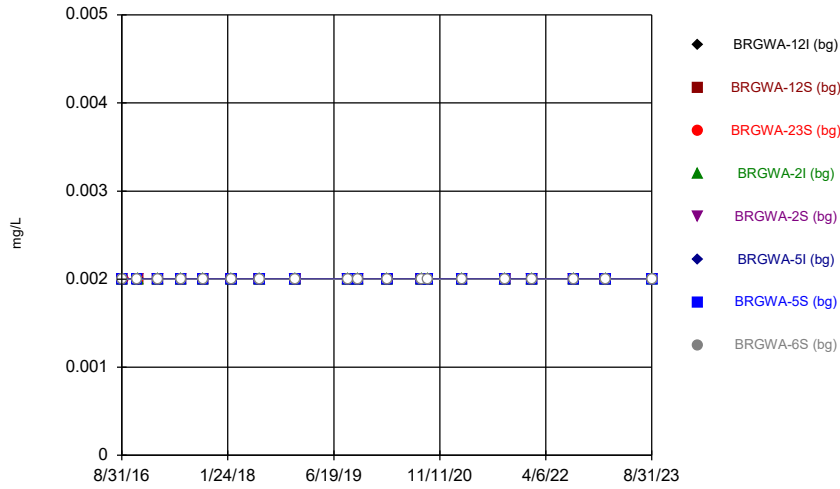
Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



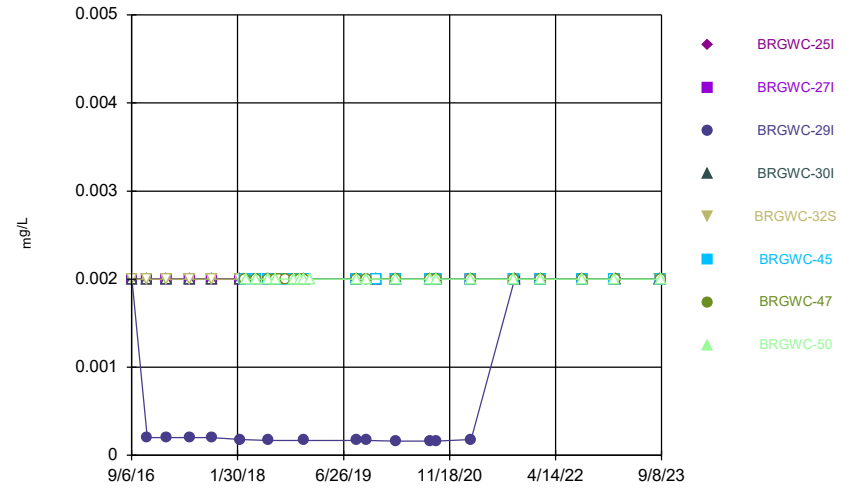
Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



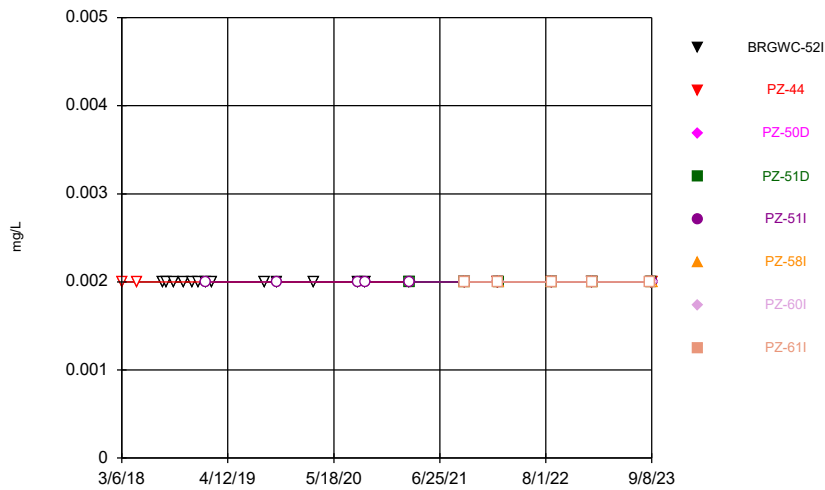
Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



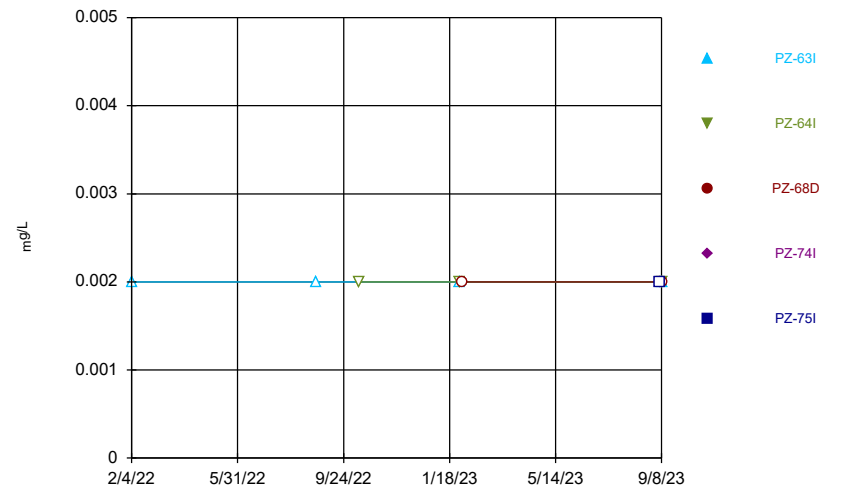
Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



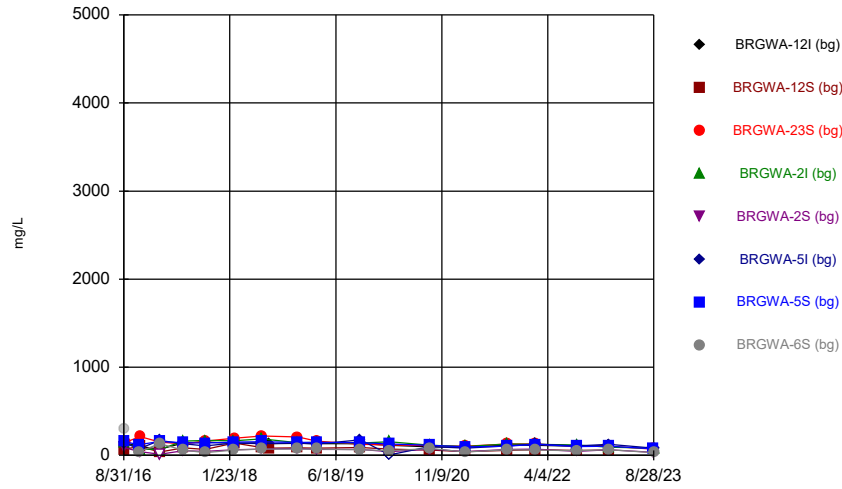
Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



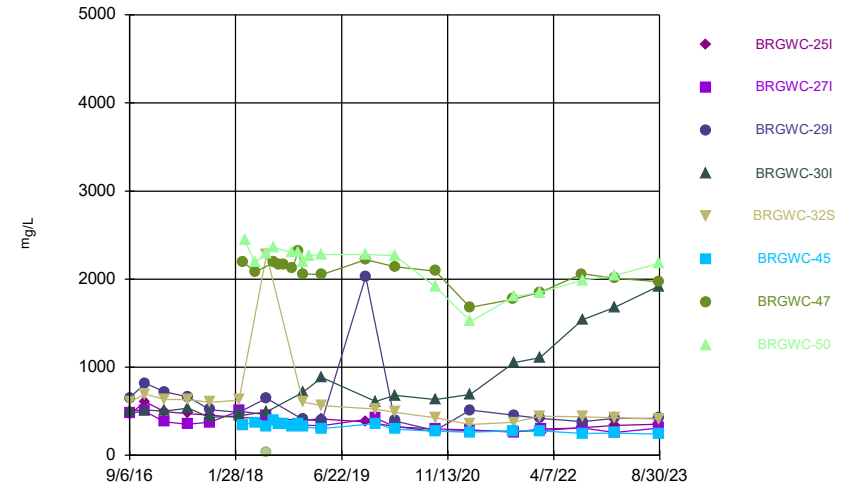
Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



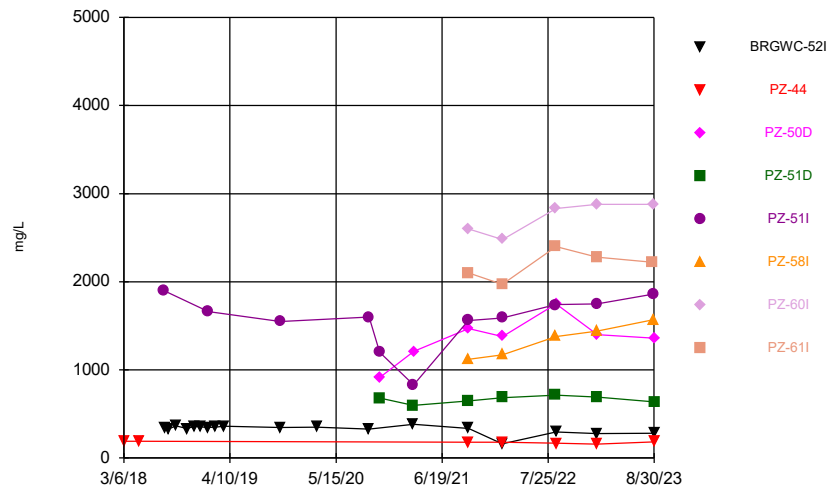
Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



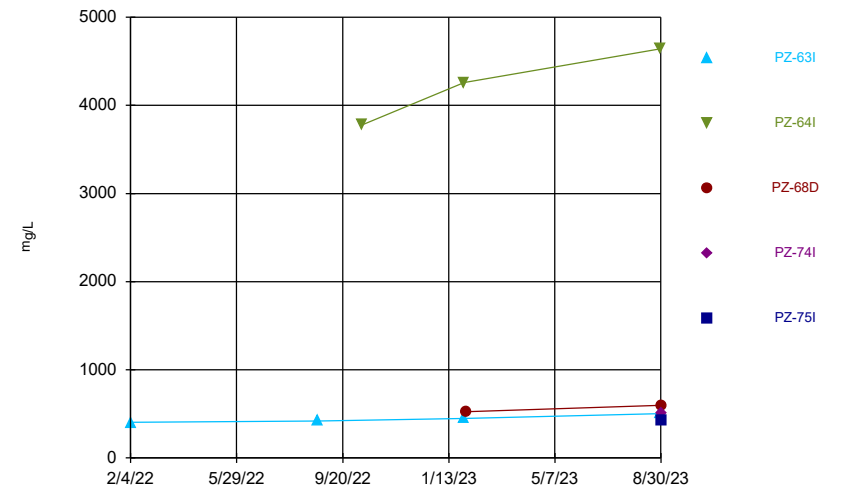
Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0009 (J)	<0.003	<0.003	<0.003	
9/1/2016	0.0015 (J)	<0.003						<0.003
9/6/2016			<0.003					
11/15/2016							<0.003	<0.003
11/16/2016	<0.003	0.0011 (J)		<0.003	<0.003	<0.003		
11/17/2016			<0.003					
2/20/2017						<0.003	<0.003	<0.003
2/21/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
6/12/2017				<0.003		<0.003	<0.003	<0.003
6/13/2017		0.0009 (J)	<0.003		0.0011 (J)			
6/14/2017	0.0014 (J)							
9/26/2017	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2018				<0.003	<0.003	<0.003	<0.003	<0.003
2/14/2018	<0.003	<0.003	<0.003					
6/26/2018	<0.003	<0.003	0.002 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
12/18/2018	0.009	<0.003	<0.003	<0.003	<0.003	<0.003	0.00087 (J)	<0.003
8/27/2019	0.0072	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/29/2019			<0.003					
10/15/2019	0.012	<0.003	<0.003	0.00047 (J)	<0.003	<0.003	<0.003	<0.003
3/3/2020	0.0063	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
3/4/2020			<0.003					
8/18/2020	0.0067	<0.003	<0.003	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003
9/15/2020	0.01	<0.003	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2021				<0.003				<0.003
3/2/2021	0.0095	<0.003	<0.003		<0.003	<0.003	<0.003	
9/21/2021	0.017	<0.003				<0.003	<0.003	
9/22/2021			<0.003	<0.003	<0.003			<0.003
2/1/2022	0.011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	0.0241	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/24/2023	0.0245	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.003				
9/8/2016	<0.003	<0.003	<0.003		<0.003			
11/17/2016	<0.003							
11/18/2016		<0.003						
11/21/2016			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017			<0.003	<0.003	<0.003			
6/13/2017	<0.003	<0.003						
6/14/2017			0.0007 (J)	<0.003	<0.003			
9/27/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
2/14/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
3/6/2018						<0.003	<0.003	
3/15/2018								<0.003
5/1/2018						<0.003	<0.003 (D)	<0.003
6/26/2018	<0.003							
6/27/2018		<0.003	<0.003		<0.003		<0.003	
6/28/2018				<0.003		<0.003		<0.003
7/31/2018						<0.003		
8/1/2018							<0.003	<0.003
8/23/2018						<0.003	<0.003	
9/19/2018						<0.003	<0.003	
10/29/2018						<0.003	<0.003	<0.003
11/28/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003		<0.003	<0.003				
12/19/2018					<0.003		<0.003	<0.003
12/20/2018		<0.003				0.0024 (J)		
1/16/2019								<0.003
8/27/2019	<0.003			<0.003	<0.003			
8/28/2019		<0.003	<0.003			0.00046 (J)	<0.003	
8/29/2019								0.00052 (J)
10/15/2019	<0.003							
10/16/2019			<0.003				<0.003	<0.003
12/3/2019						0.00088 (J)		
12/4/2019		<0.003		<0.003	<0.003			
3/4/2020	<0.003	<0.003	<0.003				<0.003	<0.003
3/5/2020				<0.003	0.0014 (J)	0.0016 (J)		
8/19/2020	<0.003	<0.003	<0.003	<0.003	<0.003			
8/20/2020						0.0031	<0.003	<0.003
9/15/2020	<0.003		<0.003					
9/16/2020		<0.003		<0.003	<0.003	0.0012 (J)	0.00035 (J)	
9/17/2020								0.00041 (J)
3/2/2021	<0.003					0.0014 (J)	<0.003	
3/3/2021		<0.003	<0.003	<0.003				
3/4/2021					<0.003			0.00092 (J)
9/23/2021						<0.003	<0.003	
9/27/2021								<0.003
9/28/2021	<0.003	<0.003	<0.003	<0.003	<0.003			
2/2/2022	<0.003			0.0013 (J)	<0.003	<0.003	<0.003	
2/3/2022			<0.003					<0.003
2/4/2022		<0.003						
8/23/2022	<0.003						<0.003	
8/24/2022			<0.003	<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.003			<0.003	<0.003		
1/24/2023					<0.003			
1/25/2023		<0.003				<0.003		<0.003
1/26/2023	<0.003		<0.003	<0.003			<0.003	
8/31/2023				<0.003	<0.003			
9/6/2023	<0.003	<0.003	<0.003			<0.003	<0.003	
9/8/2023								<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.003						
5/1/2018		<0.003						
8/10/2018	<0.003							
8/23/2018	0.00085 (J)							
9/19/2018	<0.003							
10/29/2018	<0.003							
11/28/2018	<0.003							
12/20/2018	<0.003							
1/17/2019	<0.003							
1/19/2019					<0.003			
2/13/2019	<0.003							
8/29/2019	<0.003							
10/16/2019	<0.003							
10/18/2019					<0.003			
3/4/2020	0.00043 (J)							
8/20/2020	<0.003				0.0017 (J)			
9/17/2020	<0.003				<0.003			
3/3/2021				0.0013 (J)				
3/4/2021	0.00091 (J)				0.00079 (J)			
3/5/2021			0.00056 (J)					
9/27/2021					0.0012 (J)			<0.003
9/28/2021	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	
2/2/2022	<0.003	<0.003			<0.003			<0.003
2/3/2022			<0.003	<0.003		<0.003	<0.003	
8/24/2022				<0.003	<0.003	<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003					
1/25/2023	<0.003	<0.003						
1/26/2023				<0.003	<0.003	<0.003	<0.003	<0.003
1/27/2023			<0.003					
8/31/2023								<0.003
9/6/2023	<0.003			<0.003				
9/8/2023		<0.003	<0.003		<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.003				
8/25/2022	<0.003				
10/12/2022		<0.003			
1/30/2023	<0.003	<0.003			
2/1/2023			0.00176 (J)		
9/6/2023				<0.003	<0.003
9/8/2023	<0.003	<0.003	<0.003		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.005	<0.005	<0.005	<0.005	
9/1/2016	<0.005	<0.005						<0.005
9/6/2016			<0.005					
11/15/2016							<0.005	<0.005
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005		
11/17/2016			<0.005					
2/20/2017						<0.005	<0.005	<0.005
2/21/2017	<0.005	<0.005	<0.005	<0.005	<0.005			
6/12/2017				0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005
6/13/2017		<0.005	0.0008 (J)		<0.005			
6/14/2017	0.0009 (J)							
9/26/2017	0.0012 (J)	0.0006 (J)	0.0012 (J)	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)
2/13/2018				<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	0.0007 (J)					
6/26/2018	<0.005	<0.005	0.00062 (J)	0.00062 (J)	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2019			<0.005					
10/15/2019	0.00088 (J)	0.00046 (J)	0.00075 (J)	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005
3/3/2020	0.0023 (J)	0.0015 (J)		0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)
3/4/2020			<0.005					
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021				<0.005				<0.005
3/2/2021	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	
9/21/2021	<0.005	<0.005				<0.005	<0.005	
9/22/2021			<0.005	<0.005	<0.005			<0.005
2/1/2022	0.0017 (J)	<0.005	0.0018 (J)	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)
8/31/2023			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.005				
9/8/2016	<0.005	<0.005	<0.005		<0.005			
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016			0.0019 (J)	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017			<0.005	<0.005	<0.005			
6/13/2017	0.0006 (J)	0.0009 (J)						
6/14/2017			0.002 (J)	<0.005	<0.005			
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
3/6/2018						<0.005 (X)	<0.005 (X)	
3/15/2018								0.0014 (J)
5/1/2018						0.0021 (J)	0.0018 (JD)	<0.005
6/26/2018	0.00072 (J)							
6/27/2018		<0.005	<0.005		<0.005		0.0016 (J)	
6/28/2018				<0.005 (X)		<0.005 (X)		<0.005
7/31/2018						<0.005		
8/1/2018							0.0028 (J)	0.00074 (J)
8/23/2018						0.00075 (J)	<0.005	
9/19/2018						<0.005	<0.005	
10/29/2018						<0.005	0.0012 (J)	<0.005
11/28/2018						0.00096 (J)	0.0019 (J)	<0.005
12/18/2018	0.00091 (J)		<0.005	<0.005				
12/19/2018					<0.005		0.00075 (J)	<0.005
12/20/2018		<0.005				<0.005		
1/16/2019								<0.005
8/27/2019	<0.005			<0.005	<0.005			
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)	
8/29/2019								<0.005
10/15/2019	0.00052 (J)							
10/16/2019			0.00065 (J)				<0.005	<0.005
12/3/2019						0.0007 (J)		
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)			
3/4/2020	<0.005	<0.005	0.00044 (J)				0.00049 (J)	0.00046 (J)
3/5/2020				<0.005	<0.005	<0.005		
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/20/2020						<0.005	0.00089 (J)	<0.005
9/15/2020	<0.005		<0.005					
9/16/2020		<0.005		<0.005	<0.005	<0.005	<0.005	
9/17/2020								<0.005
3/2/2021	<0.005					<0.005	<0.005	
3/3/2021		<0.005	0.0015 (J)	<0.005				
3/4/2021					<0.005			<0.005
9/23/2021						<0.005	0.002 (J)	
9/27/2021								<0.005
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005			
2/2/2022	<0.005			<0.005	<0.005	<0.005	0.0056	
2/3/2022			<0.005					<0.005
2/4/2022		<0.005						
8/23/2022	<0.005						0.00228 (J)	
8/24/2022			<0.005	0.00283 (J)				0.0025 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.005			<0.005	<0.005		
1/24/2023					<0.005			
1/25/2023		<0.005				0.00225 (J)		0.00236 (J)
1/26/2023	<0.005		<0.005	0.00208 (J)			0.0024 (J)	
8/31/2023				<0.005	<0.005			
9/6/2023	<0.005	<0.005	<0.005			<0.005	0.0038 (J)	
9/8/2023								<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.005 (X)						
5/1/2018		<0.005						
8/10/2018	<0.005							
8/23/2018	<0.005							
9/19/2018	0.0013 (J)							
10/29/2018	0.0038 (J)							
11/28/2018	0.0016 (J)							
12/20/2018	0.0032 (J)							
1/17/2019	0.0032 (J)							
1/19/2019					<0.005			
2/13/2019	<0.005							
8/29/2019	0.00067 (J)							
10/16/2019	0.0026 (J)							
10/18/2019					<0.005			
3/4/2020	0.0047 (J)							
8/20/2020	0.0031 (J)				<0.005			
9/17/2020	<0.005				<0.005			
3/3/2021				0.0014 (J)				
3/4/2021	0.003 (J)				<0.005			
3/5/2021			0.00087 (J)					
9/27/2021					<0.005			0.0023 (J)
9/28/2021	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
2/2/2022	<0.005	0.004 (J)			<0.005			<0.005
2/3/2022			0.0012 (J)	0.0015 (J)		<0.005	<0.005	
8/24/2022				0.00308 (J)	0.00222 (J)	0.00245 (J)	0.00358 (J)	0.00295 (J)
8/25/2022	<0.005	<0.005	0.00235 (J)					
1/25/2023	<0.005	0.00221 (J)						
1/26/2023				0.00275 (J)	<0.005	<0.005	0.00204 (J)	0.00225 (J)
1/27/2023			0.00215 (J)					
8/31/2023								<0.005
9/6/2023	<0.005			0.00408 (J)				
9/8/2023		<0.005	0.003 (J)		<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.00896			
1/30/2023	<0.005	0.0103			
2/1/2023			0.0058		
9/6/2023				<0.005	<0.005
9/8/2023	<0.005	0.00459 (J)	0.00342 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0239	0.0099 (J)	0.0273	0.0495	
9/1/2016	0.0454	0.0528						0.0142
9/6/2016			0.0624					
11/15/2016							0.0512	0.0126
11/16/2016	0.0623	0.0509		0.0147	0.0102	0.0365		
11/17/2016			0.109					
2/20/2017						0.0336	0.0586	0.0142
2/21/2017	0.0644	0.0531	0.095	0.0109	0.0094 (J)			
6/12/2017				0.0094 (J)		0.0322	0.0567	0.0134
6/13/2017		0.0543	0.0861		0.0094 (J)			
6/14/2017	0.0726							
9/26/2017	0.0765	0.0547	0.104	0.0156	0.0096 (J)	0.0364	0.0586	0.0133
2/13/2018				0.0134	0.0102	0.054	0.054	0.0145
2/14/2018	0.0786	0.0603	0.129					
6/26/2018	0.063	0.059	0.13	0.014	0.0093 (J)	0.032	0.063	0.014
12/18/2018	0.067	0.056	0.13	0.0076 (J)	0.01	0.038	0.045	0.013
8/27/2019	0.058	0.057		0.012	0.0095 (J)	0.028	0.056	0.013
8/29/2019			0.076					
10/15/2019	0.06	0.053	0.069	0.013	0.0091 (J)	0.032	0.049	0.013
3/3/2020	0.076	0.06		0.017	0.011	0.028	0.051	0.019
3/4/2020			0.087					
8/18/2020	0.053	0.058	0.067	0.01 (J)	0.01	0.022	0.04	0.014
9/15/2020	0.059	0.058	0.086	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013
3/1/2021				0.0074				0.016
3/2/2021	0.053	0.063	0.097		0.0094	0.023	0.037	
9/21/2021	0.074	0.06				0.025	0.038	
9/22/2021			0.07	0.0075	0.0097			0.014
2/1/2022	0.057	0.064	0.08	0.0066	0.01	0.028	0.04	0.014
8/23/2022	0.0602	0.0607	0.0573	0.00954	0.012	0.0241	0.0379	0.014
1/24/2023	0.0512	0.0576	0.0468	0.00453	0.0118	0.0303	0.0394	0.0132
8/31/2023			0.0434	0.0068	0.0135	0.0245	0.0352	0.0143

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0206				
9/8/2016	0.0378	0.0184	0.0199		0.0593			
11/17/2016	0.0448							
11/18/2016		0.0173						
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)			
2/21/2017	0.0447	0.015						
2/22/2017			0.0179	0.0219	0.0498			
6/13/2017	0.0351	0.0143						
6/14/2017			0.0157	0.0197	0.0421			
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411			
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417			
3/6/2018						0.1	0.0519	
3/15/2018								0.021
5/1/2018						0.084	0.057 (D)	0.024
6/26/2018	0.031							
6/27/2018		0.015	0.017		0.038		0.046	
6/28/2018				0.023		0.067		0.021
7/31/2018						0.087 (J+X)		
8/1/2018							0.043 (J+X)	0.02 (J+X)
8/23/2018						0.084	0.038	
9/19/2018						0.086	0.036	
10/29/2018						0.098 (J+X)	0.041 (J+X)	0.019 (J+X)
11/28/2018						0.11	0.039	0.02
12/18/2018	0.03		0.017	0.029				
12/19/2018					0.036		0.04	0.02
12/20/2018		0.015				0.093		
1/16/2019								0.02
8/27/2019	0.027			0.027	0.032			
8/28/2019		0.019	0.02			0.11	0.035	
8/29/2019								0.018
10/15/2019	0.027							
10/16/2019			0.019				0.032	0.017
12/3/2019						0.099		
12/4/2019		0.016		0.021	0.028			
3/4/2020	0.026	0.015	0.018				0.038	0.019
3/5/2020				0.025	0.026	0.078		
8/19/2020	0.027	0.016	0.019	0.026	0.025			
8/20/2020						0.083	0.035	0.019
9/15/2020	0.024		0.017					
9/16/2020		0.016		0.022	0.024	0.085	0.028	
9/17/2020								0.02
3/2/2021	0.026					0.061	0.036	
3/3/2021		0.016	0.021	0.028				
3/4/2021					0.024			0.025
9/23/2021						0.064	0.031	
9/27/2021								0.017
9/28/2021	0.023	0.013	0.017	0.035	0.02			
2/2/2022	0.023			0.031	0.023	0.063	0.028	
2/3/2022			0.016					0.016
2/4/2022		0.015						
8/23/2022	0.0259						0.0285	
8/24/2022			0.0175	0.0389				0.0166

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0461						
5/1/2018		0.052						
8/10/2018	0.038							
8/23/2018	0.03 (JX)							
9/19/2018	0.03							
10/29/2018	0.025 (J+X)							
11/28/2018	0.017							
12/20/2018	0.013							
1/17/2019	0.017							
1/19/2019					0.017			
2/13/2019	0.025							
8/29/2019	0.017							
10/16/2019	0.015							
10/18/2019					0.014			
3/4/2020	0.022							
8/20/2020	0.017				0.013			
9/17/2020	0.02				0.015			
3/3/2021				0.08				
3/4/2021	0.019				0.016			
3/5/2021			0.043					
9/27/2021					0.014			0.029
9/28/2021	0.013	0.049	0.034	0.057		0.017	0.022	
2/2/2022	0.013	0.052			0.015			0.015
2/3/2022			0.033	0.057		0.016	0.021	
8/24/2022				0.0584	0.0154	0.0181	0.0226	0.0133
8/25/2022	0.0179	0.056	0.0257					
1/25/2023	0.0249	0.0498						
1/26/2023				0.0481	0.0152	0.0167	0.0218	0.0125
1/27/2023			0.0315					
8/31/2023								0.0127
9/6/2023	0.0415			0.0448				
9/8/2023		0.0555	0.0312		0.0149	0.0173	0.0232	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.037				
8/25/2022	0.023				
10/12/2022		0.0543			
1/30/2023	0.022	0.0254			
2/1/2023			0.145		
9/6/2023				0.0346	0.0513
9/8/2023	0.0221	0.0177	0.107		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2016	<0.0005	<0.0005						<0.0005
9/6/2016			<0.0005					
11/15/2016							<0.0005	<0.0005
11/16/2016	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		
11/17/2016			<0.0005					
2/20/2017						<0.0005	<0.0005	<0.0005
2/21/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/12/2017				<0.0005		<0.0005	<0.0005	<0.0005
6/13/2017		<0.0005	<0.0005		<0.0005			
6/14/2017	<0.0005							
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/14/2018	<0.0005	<0.0005	<0.0005					
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/29/2019			<0.0005					
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/4/2020			<0.0005					
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021				<0.0005				<0.0005
3/2/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
9/21/2021	<0.0005	<0.0005				<0.0005	<0.0005	
9/22/2021			<0.0005	<0.0005	<0.0005			<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0005				
9/8/2016	<0.0005	0.0002 (J)	0.0011 (J)		<0.0005			
11/17/2016	<0.0005							
11/18/2016		0.0002 (J)						
11/21/2016			0.0012 (J)	<0.0005	<0.0005			
2/21/2017	<0.0005	0.0002 (J)						
2/22/2017			0.0014 (J)	<0.0005	<0.0005			
6/13/2017	<0.0005	0.0002 (J)						
6/14/2017			0.0012 (J)	<0.0005	<0.0005			
9/27/2017	<0.0005	0.0001 (J)	0.001 (J)	<0.0005	<0.0005			
2/14/2018	<0.0005	<0.0005	<0.003	<0.0005	<0.0005			
3/6/2018						<0.0005	<0.0005	
3/15/2018								<0.003
5/1/2018						<0.0005	<0.0005 (D)	<0.003
6/26/2018	<0.0005							
6/27/2018		0.00014 (J)	0.0008 (J)		<0.0005		<0.0005	
6/28/2018				<0.0005		<0.0005		0.003 (J)
7/31/2018						<0.0005		
8/1/2018							<0.0005	0.0025 (J)
8/23/2018						7.9E-05 (J)	5.5E-05 (J)	
9/19/2018						<0.0005	<0.0005	
10/29/2018						<0.0005	<0.0005	0.0042
11/28/2018						<0.0005	5.6E-05 (J)	0.0029 (J)
12/18/2018	<0.0005		0.00071 (J)	<0.0005				
12/19/2018					<0.0005		<0.0005 (X)	0.0043
12/20/2018		<0.0005 (X)				<0.0005		
1/16/2019								0.0038
8/27/2019	<0.0005			<0.0005	<0.0005			
8/28/2019		0.00012 (J)	0.0008 (J)			<0.0005	<0.0005	
8/29/2019								0.0029 (J)
10/15/2019	<0.0005							
10/16/2019			0.00072 (J)				<0.0005	0.0027 (J)
10/17/2019		<0.0005		<0.0005	<0.0005	<0.0005		
12/3/2019						<0.0005		
12/4/2019		0.00012 (J)		<0.0005	<0.0005			
3/4/2020	<0.0005	0.00012 (J)	0.00073 (J)				<0.0005	0.0052
3/5/2020				<0.0005	<0.0005	<0.0005		
8/19/2020	<0.0005	9.9E-05 (J)	0.00074 (J)	<0.0005	<0.0005			
8/20/2020						4.6E-05 (J)	4.7E-05 (J)	0.0044
9/15/2020	<0.0005		0.00071 (J)					
9/16/2020		0.00011 (J)		<0.0005	<0.0005	<0.0005	<0.0005	
9/17/2020								0.0065
3/2/2021	<0.0005					<0.0005	<0.0005	
3/3/2021		7.1E-05 (J)	0.00094	<0.0005				
3/4/2021					<0.0005			0.0059
9/23/2021						<0.0005	<0.0005	
9/27/2021								0.006
9/28/2021	<0.0005	<0.0005	0.00079	<0.0005	<0.0005			
2/2/2022	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
2/3/2022			0.00083					0.0071
2/4/2022		5.4E-05 (J)						
8/23/2022	<0.0005						<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.000845	<0.0005				0.00831
8/25/2022		<0.0005			<0.0005	<0.0005		
1/24/2023					<0.0005			
1/25/2023		<0.0005				<0.0005		0.00962
1/26/2023	<0.0005		0.00109	<0.0005			<0.0005	
8/31/2023				<0.0005	<0.0005			
9/6/2023	<0.0005	<0.0005	0.00113			<0.0005	<0.0005	
9/8/2023								0.00867

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0005						
5/1/2018		<0.0005						
8/10/2018	<0.0005							
8/23/2018	<0.0005							
9/19/2018	<0.0005							
10/29/2018	<0.0005							
11/28/2018	<0.0005							
12/20/2018	<0.0005							
1/17/2019	<0.0005							
1/19/2019					6.4E-05 (J)			
2/13/2019	<0.0005							
8/29/2019	<0.0005							
10/16/2019	<0.0005							
10/18/2019					<0.0005			
3/4/2020	<0.0005							
8/20/2020	<0.0005				7.7E-05 (J)			
9/17/2020	<0.0005				9.6E-05 (J)			
3/3/2021				<0.0005				
3/4/2021	<0.0005				9.7E-05 (J)			
3/5/2021			<0.0025					
9/27/2021					7.1E-05 (J)			0.0017
9/28/2021	<0.0005	<0.0005	5.9E-05 (J)	<0.0005		0.025	0.065	
2/2/2022	<0.0005	<0.0005			7.1E-05 (J)			0.0015
2/3/2022			<0.0025	<0.0005		0.027	0.072	
8/24/2022				<0.0005	<0.0005	0.0335	0.0703	0.00198
8/25/2022	<0.0005	<0.0005	0.000269 (J)					
1/25/2023	<0.0005	<0.0005						
1/26/2023				<0.0005	<0.0005	0.0377	0.0782	0.00164
1/27/2023			<0.0025					
8/31/2023								0.00145
9/6/2023	<0.0005			<0.0005				
9/8/2023		<0.0005	<0.0025		<0.0005	0.0328	0.067	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.0006			
1/30/2023	<0.005	0.00116			
2/1/2023			<0.0005		
9/6/2023				<0.0005	<0.0005
9/8/2023	<0.005	0.00248	<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0072 (J)	<0.015	<0.015	<0.015	
9/1/2016	0.0093 (J)	<0.015						<0.015
9/6/2016			0.0362 (J)					
11/15/2016							0.0085 (J)	0.0123 (J)
11/16/2016	0.0127 (J)	0.0081 (J)		0.0117 (J)	0.0109 (J)	0.0187 (J)		
11/17/2016			0.0617					
2/20/2017						0.0066 (J)	0.0093 (J)	0.0157 (J)
2/21/2017	0.0071 (J)	<0.015	0.0245 (J)	0.0088 (J)	<0.015			
6/12/2017				0.0133 (J)		<0.015	<0.015	<0.015
6/13/2017		<0.015	<0.04		<0.015			
6/14/2017	0.0078 (J)							
9/26/2017	<0.04	<0.015	<0.04	0.0093 (J)	<0.015	<0.015	<0.015	<0.015
2/13/2018				0.0141 (J)	<0.015	<0.015	<0.015	<0.015
2/14/2018	0.0068 (J)	<0.015	0.0314 (J)					
6/26/2018	0.008 (J)	<0.015	0.062	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)
12/18/2018	0.0083 (J)	0.0053 (J)	0.055	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015
3/19/2019	0.008 (J)	<0.015	0.068	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015
10/15/2019	0.006 (J)	<0.015	0.022 (J)	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)
3/3/2020	0.01 (J)	0.0065 (J)		0.0082 (J)	<0.015	<0.015	<0.015	<0.015
3/4/2020			0.044 (J)					
9/15/2020	0.0071 (J)	<0.015	0.033 (J)	<0.015	<0.015	<0.015	<0.015	<0.015
3/1/2021				<0.015				<0.015
3/2/2021	0.0057 (J)	<0.015	0.042		<0.015	0.0053 (J)	0.0071 (J)	
9/21/2021	<0.04	<0.015				<0.015	<0.015	
9/22/2021			0.047	<0.015	<0.015			<0.015
2/1/2022	<0.04	<0.015	0.046	<0.015	<0.015	<0.015	<0.015	<0.015
8/23/2022	0.00653 (J)	<0.015	0.0498	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015
1/24/2023	0.00884 (J)	0.0053 (J)	0.0437	<0.015	<0.015	<0.015	<0.015	<0.015
8/31/2023			0.039	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.96				
9/8/2016	1.03	1.63	1.35		1.28			
11/17/2016	1.7							
11/18/2016		1.91						
11/21/2016			1.74	1.68	1.19			
2/21/2017	1.55	1.39						
2/22/2017			1.5	1.48	1.43			
6/13/2017	1.77	1.62						
6/14/2017			1.6	1.71	1.57			
9/27/2017	1.75	1.16	1.83	1.61	1.51			
2/14/2018	1.47	1.17	1.8	1.47	1.6			
3/6/2018						0.0198 (J)	0.428	
3/15/2018								0.32
5/1/2018						0.015 (J)	0.435 (D)	0.32
6/26/2018	1.8							
6/27/2018		1.4 (J+X)	1.8 (J+X)		1.5 (J+X)		0.49 (J+X)	
6/28/2018				1.4		<0.04 (X)		0.34
7/31/2018						0.035 (J)		
8/1/2018							0.39	0.28
8/23/2018						0.022 (J)	0.39	
9/19/2018						0.021 (J)	0.43	
10/29/2018						0.021 (J)	0.4	0.3
11/28/2018						<0.04 (X)	0.51	0.35
12/18/2018	1.5		1.5	1.6				
12/19/2018					1.6		0.41	0.35
12/20/2018		1.4				0.028 (J)		
1/16/2019								0.37
3/19/2019		1.1					0.41	
3/20/2019	1.5 (D)		1.5	1.7	1.4	0.043		0.34
10/15/2019	1.2							
10/16/2019			1.2				0.36	0.31
10/17/2019		0.97		1.7	1.5	0.064		
12/3/2019						0.027 (J)		
12/4/2019		0.89		1.6	1.6			
3/4/2020	1.2	0.81	1.1				0.49	0.32
3/5/2020				1.5	1.5	0.044 (J)		
9/15/2020	1.2		1.1					
9/16/2020		1.2		1.7	1.4	0.028 (J)	0.47	
9/17/2020								0.36
3/2/2021	1.1					0.044	0.58	
3/3/2021		0.91	1	1.4				
3/4/2021					1.1			0.31
9/23/2021						0.029 (J)	0.47	
9/27/2021								0.32
9/28/2021	1.1	0.95	0.9	1.7	0.91			
2/2/2022	1.1			1.9	1	0.034 (J)	0.48	
2/3/2022			0.93					0.31
2/4/2022		1						
8/23/2022	1.38						0.547	
8/24/2022			1.13	2.15				0.406
8/25/2022		1.03			1.07	0.0458		
1/24/2023					1.11			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		2.12						
5/1/2018		1.5						
8/3/2018					0.3			
8/10/2018	1.3							
8/23/2018	1.4							
9/19/2018	1.7							
10/29/2018	1.3							
11/28/2018	1.5							
12/20/2018	1.6							
1/17/2019	1.5							
1/19/2019					0.39			
2/13/2019	1.7							
3/20/2019	1.6 (D)							
10/16/2019	1.3							
10/18/2019					0.38			
3/4/2020	1.4							
9/17/2020	1.9				0.43			
10/27/2020			0.15	0.029 (J)	0.37			
3/3/2021				0.028 (J)				
3/4/2021	1.4				0.36			
3/5/2021			0.2					
9/27/2021					0.39			0.26
9/28/2021	1.4	1.3	0.24	0.023 (J)		0.36	0.23	
2/2/2022	1.5	1.6			0.42			0.32
2/3/2022			0.22	0.034 (J)		0.38	0.25	
8/24/2022				0.036	0.459	0.464	0.293	0.277
8/25/2022	1.56	1.59	0.278					
1/25/2023	1.79	1.47						
1/26/2023				0.0397	0.445	0.44	0.288	0.353
1/27/2023			0.277					
9/1/2023								0.331
9/6/2023	1.87			0.0387				
9/8/2023		1.35	0.285		0.43	0.429	0.3	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.67				
8/25/2022	0.672				
10/12/2022		0.0152			
1/30/2023	0.82	0.015			
2/1/2023			0.255		
9/6/2023				1.47	1.51
9/8/2023	0.706	0.00834 (J)	0.318		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.001	<0.001	<0.001	<0.001	
9/1/2016	<0.001	<0.001						<0.001
9/6/2016			<0.001					
11/15/2016							<0.001	<0.001
11/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001		
11/17/2016			<0.001					
2/20/2017						<0.001	<0.001	<0.001
2/21/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
6/12/2017				<0.001		<0.001	<0.001	<0.001
6/13/2017		<0.001	<0.001		<0.001			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018				<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2018	<0.001	<0.001	<0.001					
6/26/2018	<0.001	<0.001	0.00015 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0001 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
8/29/2019			<0.001					
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/4/2020			<0.001					
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021				<0.001				<0.001
3/2/2021	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
9/21/2021	<0.001	<0.001				<0.001	<0.001	
9/22/2021			<0.001	<0.001	<0.001			<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.001				
9/8/2016	<0.001	7E-05 (J)	<0.001		<0.001			
11/17/2016	<0.001							
11/18/2016		9E-05 (J)						
11/21/2016			<0.001	8E-05 (J)	8E-05 (J)			
2/21/2017	<0.001	<0.001						
2/22/2017			<0.001	<0.001	0.0001 (J)			
6/13/2017	<0.001	<0.001						
6/14/2017			<0.001	<0.001	<0.001			
9/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
2/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
3/6/2018						<0.001	<0.001	
3/15/2018								0.038
5/1/2018						<0.001	<0.001 (D)	0.011
6/26/2018	<0.001							
6/27/2018		<0.001	<0.001		0.00011 (J)		0.00014 (J)	
6/28/2018				<0.001		<0.001		0.087
7/31/2018						<0.001		
8/1/2018							0.00011 (J)	0.042
8/23/2018						<0.001	0.00018 (J)	
9/19/2018						<0.001	0.00015 (J)	
10/29/2018						9.8E-05 (J)	0.00019 (J)	0.083
11/28/2018						<0.001	0.00022 (J)	0.031
12/18/2018	<0.001		<0.001	<0.001				
12/19/2018					<0.001 (X)		<0.001	0.042
12/20/2018		<0.001				<0.001 (X)		
1/16/2019								0.028
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001			<0.001	0.00017 (J)	
8/29/2019								0.0071
10/15/2019	<0.001							
10/16/2019			<0.001				0.00018 (J)	0.014
10/17/2019		<0.001		<0.001	<0.001	<0.001		
12/3/2019						0.00011 (J)		
12/4/2019		<0.001		<0.001	<0.001			
3/4/2020	<0.001	<0.001	<0.001				0.00024 (J)	0.013
3/5/2020				<0.001	<0.001	<0.001		
8/19/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/20/2020						0.00014 (J)	<0.001	0.0079
9/15/2020	<0.001		<0.001					
9/16/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/17/2020								0.021
3/2/2021	<0.001					0.0002 (J)	<0.001	
3/3/2021		<0.001	<0.001	<0.001				
3/4/2021					<0.001			0.019
9/23/2021						<0.001	<0.001	
9/27/2021								0.0095
9/28/2021	<0.001	<0.001	<0.001	<0.001	<0.001			
2/2/2022	<0.001			0.00014 (J)	<0.001	<0.001	0.00015 (J)	
2/3/2022			<0.001					0.0085
2/4/2022		<0.001						
8/23/2022	<0.001						<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.001	<0.001				0.00818
8/25/2022		<0.001			<0.001	<0.001		
1/24/2023					<0.001			
1/25/2023		<0.001				<0.001		0.00726
1/26/2023	<0.001		<0.001	<0.001			<0.001	
8/31/2023				<0.001	<0.001			
9/6/2023	<0.001	<0.001	<0.001			<0.001	<0.001	
9/8/2023								0.00744

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/3/2018					0.0015			
8/10/2018	<0.001							
8/23/2018	<0.001							
9/19/2018	<0.001							
10/29/2018	<0.001							
11/28/2018	<0.001							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					0.0016			
2/13/2019	<0.001							
8/29/2019	<0.001							
10/16/2019	<0.001							
10/18/2019					0.00083 (J)			
3/4/2020	<0.001							
8/20/2020	<0.001				0.0019 (J)			
9/17/2020	<0.001				0.033			
10/27/2020			<0.001	<0.001	0.0051			
3/3/2021				<0.001				
3/4/2021	<0.001				0.017			
3/5/2021			<0.001					
9/27/2021					0.0031			0.00081
9/28/2021	<0.001	<0.001	<0.001	<0.001		0.0042	0.016	
2/2/2022	<0.001	<0.001			0.0043			0.00014 (J)
2/3/2022			<0.001	<0.001		0.0038	0.016	
8/24/2022				<0.001	0.00478	0.0046	0.017	0.000859 (J)
8/25/2022	<0.001	<0.001	<0.001					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	0.00101	0.00435	0.0152	0.000517 (J)
1/27/2023			<0.001					
8/31/2023								0.000496 (J)
9/6/2023	<0.001			<0.001				
9/8/2023		<0.001	<0.001		0.000679 (J)	0.00453	0.0149	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.001				
8/25/2022	<0.001				
10/12/2022		<0.001			
1/30/2023	<0.001	0.00126			
2/1/2023			<0.001		
9/6/2023				<0.001	<0.001
9/8/2023	<0.001	<0.001	<0.001		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				12.6	4.09	13.5	19.6	
9/1/2016	8.98	4.61						3.3
9/6/2016			12.8					
11/15/2016							21.7	3.44
11/16/2016	15.4	4.17		12.1	4.25	14.9		
11/17/2016			19.2					
2/20/2017						13.9	21.1	3.52
2/21/2017	17.4	5	15.1	11.4	4.02			
6/12/2017				9.34		13.7	21.5	3.11
6/13/2017		4.98	10.2		3.84			
6/14/2017	18.1							
9/26/2017	19.3	4.49	15	14.3	3.31	14.4	24	3.15
2/13/2018				<25	3.94	<25	<25	3.65
2/14/2018	<25	<25	<25					
6/26/2018	15.5 (J)	6.4	18.5 (J)	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3
7/31/2018	18.2 (J)	6.1						
12/18/2018	18.7 (J)	5.5	16.8 (J)	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5
3/19/2019	15.9 (J)	5.9	13.5 (J)	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6
10/15/2019	15.9	6.2	8.6	15.1	3.7	14.4	20	3.5
3/3/2020	19.4	6.8		20	4	14.9	23.2	5
3/4/2020			11.5					
9/15/2020	14.5	5.7	10.7	14.1	3.9	12.7	16.8	3.7
3/1/2021				15.4				4.2
3/2/2021	11.7	5.4	11.6		4	13.2	16.8	
9/21/2021	16.4	5.4				14.1	19.1	
9/22/2021			9.2	15.9	4.3			4.1
2/1/2022	14.2	5.3	10.7	14.4	4.4	14.5	19.1	4.2
8/23/2022	15.8	6.09	8.09	13.9	4.65	14.3	18.2	3.97
1/24/2023	13.7	5.62	6.97	14.2	4.86	15.8	19.4	3.9
8/31/2023			5.95	12.6	5.02	14.3	14.9	3.79

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				63.3				
9/8/2016	59.4	87.2	93.9		60.5			
11/17/2016	78.4							
11/18/2016		82.4						
11/21/2016			99.1	60.7	31.1			
2/21/2017	80.9	75.1						
2/22/2017			105	62.1	67.3			
6/13/2017	62	61						
6/14/2017			91.3	63.5	60.2			
9/27/2017	65.8	72.6	84	63.5	68.4			
2/14/2018	58.8	74.1	72.1	62.8	70.2			
3/6/2018						39.5	326	
3/15/2018								233
5/1/2018						45.5	302 (D)	225
6/26/2018	55.5							
6/27/2018		68.2	61.1		67.1		340	
6/28/2018				73.3		41.9		242
7/31/2018						41.5		
8/1/2018							358	246
8/23/2018						42.3	323	
9/19/2018						41.9	321	
10/29/2018						40.8	326	236
11/28/2018						45.1	354	254
12/18/2018	54.7		52.9	102				
12/19/2018					61.2		330	252
12/20/2018		63.9				39		
1/16/2019								248
3/19/2019		60.2					335	
3/20/2019	53.95 (D)		55.4	141	52.8	31.2		222
10/15/2019	48.3							
10/16/2019			54				338	241
12/3/2019						43.7		
12/4/2019		76.8		92.6	52.7			
3/4/2020	52	72.3	59.3				353	245
3/5/2020				119	52.1	37.9		
9/15/2020	40.1		55.1					
9/16/2020		62.5		106	43.1	39.7	309	
9/17/2020								206
3/2/2021	44.1					33.9	353	
3/3/2021		58.2	73.3	122				
3/4/2021					35.7			214
9/23/2021						32	336	
9/27/2021								196
9/28/2021	38.4	50.4	59.5	212	33.9			
2/2/2022	44.3			232	44.2	33.8	320	
2/3/2022			58.7					220
2/4/2022		61.7						
8/23/2022	51.5						323	
8/24/2022			61	316				215
8/25/2022		64			48.5	33.5		
1/24/2023					46.6			
1/25/2023		55.7				34.3		216

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
 Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<25						
5/1/2018		<25						
8/10/2018	410 (O)							
8/23/2018	33.9							
9/19/2018	42.3							
10/29/2018	39.8							
11/28/2018	38.2							
12/20/2018	43.2							
1/17/2019	39.4							
1/19/2019					196			
2/13/2019	36.9							
3/20/2019	40.85 (D)							
10/16/2019	48.4							
10/18/2019					177			
3/4/2020	49.5							
9/17/2020	35.4				168			
10/27/2020			159	132	183			
3/3/2021				119				
3/4/2021	47.5				182			
3/5/2021			207					
9/27/2021					187			230
9/28/2021	39.5	24.2	225	113		108	274	
2/2/2022	40.1	25.1			187			215
2/3/2022			222	122		120	279	
8/24/2022				118	197	146	281	214
8/25/2022	38.3	27.2	210					
1/25/2023	36.3	25.1						
1/26/2023				119	198	151	284	214
1/27/2023			214					
9/1/2023								209
9/6/2023	37.4			120				
9/8/2023		26.5	211		217	162	294	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	42.2				
8/25/2022	45.1				
10/12/2022		320			
1/30/2023	49.8	372			
2/1/2023			86.1		
9/6/2023				69.2	47
9/8/2023	56.8	363	86.4		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				2.3	2	4.4	3.6	
9/1/2016	3.3	3.5						2.5
9/6/2016			5.8					
11/15/2016							4	2.3
11/16/2016	3.6	3.6		2	1.8	4.4		
11/17/2016			4.3					
2/20/2017						4.8	3.9	2.4
2/21/2017	3.2	3.2	3.5	2	1.8			
6/12/2017				2.1		4.2	3.8	2.2
6/13/2017		3.3	3.2		1.7			
6/14/2017	3.1							
9/26/2017	3.3	3.3	3.5	2	1.8	4.4	4.1	2.3
2/13/2018				2.1	1.7	4.7	4.1	2.3
2/14/2018	3.1	3.5	3.8					
6/26/2018	3.4	3.4	3.8	2.4	2.2	4.5	4.1	2.6
7/31/2018	2.6	2.9						
12/18/2018	2.8	2.9	3.9	1.8	1.9	4.5	3.8	2.3
3/19/2019	3.2	3.5	3.8	2.45 (D)	2	4.5	4.2	2.6
10/15/2019	3.1	3.4	3.5	2.2	1.9	4.2	3.7	2.4
3/3/2020	2.6	3.2		1.9	1.9	3.9	3.6	2.9
3/4/2020			3.3					
9/15/2020	2.4	3.5	3.1	1.9	1.7	3.7	3.7	2.3
3/1/2021				1.8				2.1
3/2/2021	2.6	3.7	3.5		1.7	3.8	3.7	
9/21/2021	2.1	3.5				3.2	3.2	
9/22/2021			2.8	1.7	1.5			2.1
2/1/2022	2.2	3.6	3.2	1.8	1.6	3.5	3.4	2.1
8/23/2022	2.5	5.46	3.16	2.02	2.18	3.64	3.59	2.39
1/24/2023	2.49	3.79	2.88	2.09	2.16	3.93	3.56	2.3
8/23/2023			2.41	1.9	2.14	3.53	3.37	2.34

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				6.7				
9/8/2016	5.5	6	6.4		6.8			
11/17/2016	7.7							
11/18/2016		6.3						
11/21/2016			6.9	6.5	7.8			
2/21/2017	7.3	5.1						
2/22/2017			6.2	5.6	7			
6/13/2017	7.5	4.7						
6/14/2017			7.2	5.7	7.1			
9/27/2017	7.9	4.9	8.7	6	7.2			
2/14/2018	6.7	5.6	7.2	5.9	7.4			
3/6/2018						56.6	8.4	
3/15/2018								23.3
5/1/2018						58.5	5.7 (JXD)	23.4
6/26/2018	6.7							
6/27/2018		5.9	6.3		7.1		4.4	
6/28/2018				7 (J-X)		50.2 (J-X)		24 (J-X)
7/31/2018						59		
8/1/2018							5.2	25.7
8/23/2018						54	3.6	
9/19/2018						58.4	4.1	
10/29/2018						62.6	4.3	24.9
11/28/2018						58.1	5.1	24
12/18/2018	6.2		5.4	5.8				
12/19/2018					7 (J-X)		4.5 (J-X)	23.3 (J-X)
12/20/2018		5.6 (J-X)				47.2 (J-X)		
1/16/2019								24.1
3/19/2019		5.8					4.7	
3/20/2019	6.3 (D)		5.6	5.8	7.3	27.7		23.5
10/15/2019	5							
10/16/2019			6.9				4.6	21.9
12/3/2019						52.8		
12/4/2019		5.6		5	6.6			
3/4/2020	5	5.1	5.8				4.2	21.6
3/5/2020				4.3	6	37.1		
9/15/2020	4.9		5.5					
9/16/2020		5.4		4.4	5.6	54.9	4.1	
9/17/2020								20.1
3/2/2021	4.5					25.8	4.8	
3/3/2021		4.5	5.6	4				
3/4/2021					4.6			18.9
9/23/2021						29.3	4.3	
9/27/2021								16.2
9/28/2021	4.2	3.7	5.4	3.4	3.6			
2/2/2022	4.2			4	3.8	23.4	4.2	
2/3/2022			6.1					17.4
2/4/2022		4.6						
8/23/2022	5.38						4.49	
8/24/2022			5.84	4.91				15.8
8/25/2022		4.65			3.96	14.9		
1/24/2023					4.49			
1/25/2023		3.81				27.4		14.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	6.96		5.59	3.82			4.96	
8/23/2023				3.35	4.3			
8/25/2023	8.47	4.81	6.08				4.67	14.8
8/26/2023						16.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
 Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		6						
5/1/2018		6						
8/10/2018	6.9							
8/23/2018	7.5							
9/19/2018	6.6							
10/29/2018	7.8							
11/28/2018	7.2							
12/20/2018	6.6 (J-X)							
1/17/2019	6.4							
1/19/2019					11.6			
2/13/2019	6.5							
3/20/2019	6.7 (D)							
10/16/2019	7							
10/18/2019					10.9			
3/4/2020	6.1							
9/17/2020	6.3				10.5			
10/27/2020			5.6	6.3	11			
3/3/2021				18.9				
3/4/2021	5.6				12.2			
3/5/2021			8					
9/27/2021					9.4			20
9/28/2021	5.5	5	13	12.8		9.6	27.2	
2/2/2022	6.1	5.5			9.7			19.2
2/3/2022			12.5	15.2		11.9	30.7	
8/24/2022				17.5	9.64	10.7	26.7	19.2
8/25/2022	6.27	6.28	26.2					
1/25/2023	6.35	5.84						
1/26/2023				21.8	9.5	12.1	28.3	17
1/27/2023			11.5					
8/24/2023		6.83			9.43			
8/25/2023	6.28		10.1	22.2		11	25	15.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	6.2				
8/25/2022	6.15				
10/12/2022		55.3			
1/30/2023	7.18	40.7			
2/1/2023			12.7		
8/24/2023	6.81				
8/25/2023		36.5	23		6.84
8/26/2023				14.8	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)	
9/1/2016	0.0009 (J)	0.0013 (J)						0.0147
9/6/2016			<0.01					
11/15/2016							0.003 (J)	0.0154 (B)
11/16/2016	0.0015 (J)	0.0012 (J)		<0.01	0.0029 (J)	0.0051 (J)		
11/17/2016			<0.01					
2/20/2017						0.0049 (J)	0.0047 (J)	0.014
2/21/2017	0.001 (J)	0.0017 (J)	<0.01	<0.01	0.0036 (J)			
6/12/2017				0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016
6/13/2017		0.0019 (J)	<0.01		0.0038 (J)			
6/14/2017	0.0012 (J)							
9/26/2017	0.0014 (J)	0.0018 (J)	<0.01	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144
2/13/2018				<0.01	<0.01	<0.01	<0.01	0.0144
2/14/2018	<0.01	<0.01	<0.01					
6/26/2018	<0.01	0.0022 (J)	<0.01	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015
12/18/2018	0.0016 (J)	0.0022 (J)	<0.01	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015
8/27/2019	0.0023 (J)	0.0024 (J)		0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015
8/29/2019			0.0016 (J)					
10/15/2019	0.0021 (J)	0.0023 (J)	0.0017 (J)	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014
3/3/2020	0.0026 (J)	0.0028 (J)		0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011
3/4/2020			0.0019 (J)					
8/18/2020	0.0023 (J)	0.0029 (J)	0.0017 (J)	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015
9/15/2020	0.00096 (J)	0.0025 (J)	0.0019 (J)	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014
3/1/2021				<0.01				0.011
3/2/2021	0.002 (J)	0.0021 (J)	0.002 (J)		0.0074	0.0064	0.0044 (J)	
9/21/2021	0.0023 (J)	0.0024 (J)				0.0064	0.0044 (J)	
9/22/2021			0.0026 (J)	<0.01	0.0091			0.014
2/1/2022	0.0027 (J)	0.0029 (J)	0.0028 (J)	0.0013 (J)	0.0092	0.0066	0.0052	0.015
8/23/2022	<0.01	<0.01	<0.01	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143
1/24/2023	<0.01	<0.01	<0.01	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139
8/31/2023			<0.01	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.01				
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			<0.01	<0.01	<0.01			
2/21/2017	<0.01	<0.01						
2/22/2017			<0.01	<0.01	0.0012 (J)			
6/13/2017	<0.01	<0.01						
6/14/2017			<0.01	<0.01	0.0009 (J)			
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)			
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01			
3/6/2018						<0.01	<0.01	
3/15/2018								<0.01
5/1/2018						<0.01	<0.01 (D)	<0.01
6/26/2018	<0.01							
6/27/2018		<0.01	<0.01		<0.01		<0.01	
6/28/2018				<0.01		<0.01		0.0023 (J)
7/31/2018						<0.01		
8/1/2018							<0.01	0.0046 (J)
8/23/2018						<0.01	<0.01	
9/19/2018						<0.01	<0.01	
10/29/2018						<0.01	<0.01	<0.01
11/28/2018						<0.01	<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01				
12/19/2018					<0.01		0.0018 (J)	<0.01
12/20/2018		0.003 (J)				<0.01		
1/16/2019								<0.01
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)			
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)	
8/29/2019								<0.01
10/15/2019	0.00098 (J)							
10/16/2019			<0.01				<0.01	0.0005 (J)
12/3/2019						<0.01		
12/4/2019		<0.01		<0.01	0.0014 (J)			
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)	0.00071 (J)
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)		
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
8/20/2020						0.001 (J)	0.00064 (J)	0.00065 (J)
9/15/2020	<0.01		<0.01					
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01	
9/17/2020								0.00098 (J)
3/2/2021	<0.01					<0.01	<0.01	
3/3/2021		<0.01	<0.01	<0.01				
3/4/2021					0.002 (J)			0.001 (J)
9/23/2021						<0.01	<0.01	
9/27/2021								<0.01
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01	
2/3/2022			<0.01					<0.01
2/4/2022		<0.01						
8/23/2022	<0.01						<0.01	
8/24/2022			<0.01	<0.01				<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.01			<0.01	<0.01		
1/24/2023					<0.01			
1/25/2023		<0.01				<0.01		<0.01
1/26/2023	<0.01		<0.01	<0.01			<0.01	
8/31/2023				<0.01	<0.01			
9/6/2023	<0.01	<0.01	<0.01			<0.01	<0.01	
9/8/2023								<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.01						
5/1/2018		<0.01						
8/10/2018	0.0017 (J)							
8/23/2018	<0.01							
9/19/2018	<0.01							
10/29/2018	<0.01							
11/28/2018	<0.01							
12/20/2018	<0.01							
1/17/2019	<0.01							
1/19/2019					<0.01			
2/13/2019	<0.01							
8/29/2019	<0.01							
10/16/2019	<0.01							
10/18/2019					<0.01			
3/4/2020	<0.01							
8/20/2020	<0.01				<0.01			
9/17/2020	<0.01				0.00098 (J)			
3/3/2021				<0.01				
3/4/2021	<0.01				0.0008 (J)			
3/5/2021			<0.01					
9/27/2021					<0.01			0.0077
9/28/2021	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	
2/2/2022	<0.01	<0.01			<0.01			<0.01
2/3/2022			<0.01	<0.01		<0.01	<0.01	
8/24/2022				<0.01	<0.01	<0.01	<0.01	<0.01
8/25/2022	<0.01	<0.01	<0.01					
1/25/2023	<0.01	<0.01						
1/26/2023				<0.01	<0.01	<0.01	<0.01	<0.01
1/27/2023			<0.01					
8/31/2023								<0.01
9/6/2023	<0.01			<0.01				
9/8/2023		<0.01	<0.01		<0.01	<0.01	<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.01				
8/25/2022	<0.01				
10/12/2022		<0.01			
1/30/2023	<0.01	<0.01			
2/1/2023			<0.01		
9/6/2023				<0.01	<0.01
9/8/2023	<0.01	<0.01	<0.01		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001	
9/1/2016	<0.001	<0.001						<0.001
9/6/2016			0.0028 (J)					
11/15/2016							<0.001	<0.001
11/16/2016	<0.001	<0.001		0.0006 (J)	0.003 (J)	<0.01 (o)		
11/17/2016			0.0072 (J)					
2/20/2017						0.0012 (J)	0.0009 (J)	<0.001
2/21/2017	<0.001	<0.001	0.0045 (J)	<0.005	0.0028 (J)			
6/12/2017				<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)
6/13/2017		<0.001	0.0036 (J)		0.0025 (J)			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	0.0037 (J)	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)
2/13/2018				<0.005	<0.005	<0.01 (o)	<0.001	<0.001
2/14/2018	<0.001	<0.001	0.0135					
6/26/2018	<0.001	<0.001	0.0098 (J)	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0057 (J)	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001
8/27/2019	<0.001	<0.001		<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001
8/29/2019			0.0015 (J)					
10/15/2019	<0.001	<0.001	0.0011 (J)	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001
3/3/2020	<0.001	<0.001		<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)
3/4/2020			0.0012 (J)					
8/18/2020	<0.001	<0.001	0.00067 (J)	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)
9/15/2020	<0.001	<0.001	0.00076 (J)	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001
3/1/2021				<0.005				<0.001
3/2/2021	<0.001	<0.001	<0.001		0.001 (J)	0.00053 (J)	<0.001	
9/21/2021	<0.001	<0.001				0.00071 (J)	<0.001	
9/22/2021			<0.001	0.0015 (J)	<0.005			0.00078 (J)
2/1/2022	<0.001	<0.001	0.00052 (J)	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001
8/23/2022	<0.001	<0.001	0.000308 (J)	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001
8/31/2023			<0.001	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0006 (J)				
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)			
11/17/2016	0.0086 (J)							
11/18/2016		0.0131						
11/21/2016			0.0122	<0.04	0.001 (J)			
2/21/2017	0.0079 (J)	0.0099 (J)						
2/22/2017			0.0136	0.0016 (J)	<0.001			
6/13/2017	0.0083 (J)	0.0094 (J)						
6/14/2017			0.0113	0.0015 (J)	<0.001			
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001			
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001			
3/6/2018						0.0162	<0.001	
3/15/2018								1.3
5/1/2018						0.015	0.0125 (D)	1.4
6/26/2018	0.006 (J)							
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001		0.0076 (J)	
6/28/2018				0.00078 (J)		0.01		1.3
7/31/2018						0.0098 (J)		
8/1/2018							0.004 (J)	1.4
8/23/2018						0.0093 (J)	0.0016 (J)	
9/19/2018						0.0084 (J)	0.0018 (J)	
10/29/2018						0.0064 (J)	0.0014 (J)	1.4
11/28/2018						0.0071 (J)	0.0016 (J)	1.4
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)				
12/19/2018					<0.001		0.0014 (J)	1.5
12/20/2018		0.0081 (J)				0.069		
1/16/2019								1.4
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001			
8/28/2019		0.01	0.0061			0.011	0.00037 (J)	
8/29/2019								1.3
10/15/2019	0.0043 (J)							
10/16/2019			0.0058				0.00032 (J)	1.4
10/17/2019		0.011 (J)		<0.04	<0.001	0.0098 (J)		
12/3/2019						0.0076		
12/4/2019		0.0086		0.0012 (J)	<0.001			
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)	1.5
3/5/2020				0.0011 (J)	<0.001	0.0091		
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001			
8/20/2020						0.022	0.00043 (J)	1.4
9/15/2020	0.0035 (J)		0.0064					
9/16/2020		0.008		0.0008 (J)	<0.001	0.0049 (J)	0.00053 (J)	
9/17/2020								1.4
3/2/2021	0.003 (J)					0.0057	0.0005 (J)	
3/3/2021		0.0062	0.0095	0.0015 (J)				
3/4/2021					<0.001			1.4
9/23/2021						0.0049 (J)	<0.001	
9/27/2021								1.3
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001			
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	0.0054	<0.001	
2/3/2022			0.0077					1.5
2/4/2022		0.0076						
8/23/2022	0.00342						<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.0066	0.00163				1.42
8/25/2022		0.0079			<0.001	0.00357		
1/24/2023					<0.001			
1/25/2023		0.00711				0.00258		1.35
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)	
8/31/2023				0.00183	<0.001			
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.001	
9/8/2023								1.38

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/3/2018					0.041			
8/10/2018	0.0043 (J)							
8/23/2018	0.0026 (J)							
9/19/2018	0.0028 (J)							
10/29/2018	0.0015 (J)							
11/28/2018	0.0012 (J)							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					0.018			
2/13/2019	<0.001							
8/29/2019	0.00063 (J)							
10/16/2019	<0.001							
10/18/2019					0.017			
3/4/2020	<0.001							
8/20/2020	<0.001				0.02			
9/17/2020	0.00046 (J)				0.022			
10/27/2020			0.0037 (J)	0.00041 (J)	0.02			
3/3/2021				0.0004 (J)				
3/4/2021	<0.001				0.019			
3/5/2021			0.0038 (J)					
9/27/2021					0.02			0.45
9/28/2021	<0.001	<0.001	0.2	<0.001		0.39	3.5	
2/2/2022	<0.001	<0.001			0.023			0.51
2/3/2022			0.1	<0.001		0.43	3.4	
8/24/2022				0.000306 (J)	0.0239	0.503	3.57	0.562
8/25/2022	<0.001	<0.001	0.506					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	0.0231	0.518	3.64	0.604
1/27/2023			0.0728					
8/31/2023								0.757
9/6/2023	0.000317 (J)			0.000427 (J)				
9/8/2023		<0.001	0.00991		0.0259	0.556	3.79	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.019				
8/25/2022	0.0232				
10/12/2022		9.05			
1/30/2023	0.028	11			
2/1/2023			0.000825 (J)		
9/6/2023				0.00059 (J)	0.00105
9/8/2023	0.0309	10.6	0.00106		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.351 (U)	1 (U)	0.62 (U)	0.603 (U)	
9/1/2016	0.428 (U)	0.566 (U)						1.33
9/6/2016			0.585 (U)					
11/15/2016							0.645 (U)	0.412 (U)
11/16/2016	0.799 (U)	0.863 (U)		0.824 (U)	0.43 (U)	0.493 (U)		
11/17/2016			0.804 (U)					
2/20/2017						0.534 (U)	1.36	0.633 (U)
2/21/2017	1.75 (U)	0.318 (U)	0.595 (U)	1.01 (U)	0.96 (U)			
6/12/2017				0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)
6/13/2017		0.163 (U)	0.618 (U)		0.645 (U)			
6/14/2017	2.66							
9/26/2017	0.841 (U)	0.56 (U)	1.26 (U)	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)
2/13/2018				0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)
2/14/2018	1.13 (UX)	0.537 (U)	1.2 (U)					
6/26/2018	1.42 (J+X)	1.31 (UX)	1.34 (U)	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)
12/18/2018	0.855 (U)	1.31 (J+X)	1.13 (U)	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)
8/27/2019	1.31	1.32		1.11	1.47	1.19	1.44	0.65 (U)
8/29/2019			1.45 (U)					
10/15/2019	1.13 (U)	1.05 (U)	1.69	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)
3/3/2020	1.29 (U)	1.68		1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)
3/4/2020			1.45					
8/18/2020	0.988 (U)	0.969 (U)	0.784 (U)	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)
9/15/2020	0.762 (U)	0.359 (U)	1.04 (U)	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)
3/1/2021				0.127 (U)				0.215 (U)
3/2/2021	0.901	0.925	1.12		0.342 (U)	0.409 (U)	0.362 (U)	
9/21/2021	1.33	0.468 (U)				0.182 (U)	0.86 (U)	
9/22/2021			1.4	0.349 (U)	1.33 (U)			0.943 (U)
2/1/2022	0.833 (U)	0.659 (U)	1.15	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)
8/23/2022	0.558	1.69	1.59	1.7	0.531	2.3	0.735	0.203
1/24/2023	1.49 (U)	3.07	5.62	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)
9/22/2023			2.16	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.01 (U)				
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)			
11/17/2016	1.2 (U)							
11/18/2016		0.571 (U)						
11/21/2016			1.59	0.201 (U)	0.0569 (U)			
2/21/2017	1.31	1.28 (U)						
2/22/2017			1.64	0.57 (U)	1.07 (U)			
6/13/2017	0.738 (U)	0.521 (U)						
6/14/2017			1.32	0.726 (U)	0.459 (U)			
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)			
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)			
3/6/2018						1.25 (U)	1.75 (J+X)	
3/15/2018								1.31
5/1/2018						0.423 (U)	2.02 (J+XD)	1.69 (J+X)
6/26/2018	0.968 (U)							
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)	
6/28/2018				1.4 (UX)		0.283 (U)		1.04 (U)
7/31/2018						0.243 (U)		
8/1/2018							0.638 (U)	1.67
8/23/2018						1.1 (U)	1.14 (U)	
9/19/2018						0.369 (U)	1.45 (UX)	
10/29/2018						0.401 (U)	1.09 (U)	0.992 (U)
11/28/2018						0.901 (U)	1.67 (UX)	1.76 (UX)
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)				
12/19/2018					1.21 (U)		1.3	2.15 (J+X)
12/20/2018		0.527 (U)				0.657 (U)		
1/16/2019								1.39
8/27/2019	0.91 (U)			1.35	0.86 (U)			
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)	
8/29/2019								1.33
10/15/2019	1.06 (U)							
10/16/2019			1.69 (U)				1.28 (U)	2.51
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)		
3/4/2020	1.34	1.18	1.23				0.862 (U)	1.73
3/5/2020				1.35	0.483 (U)	0.921 (U)		
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)			
8/20/2020						0.501 (U)	1.64	2.78
9/15/2020	0.205 (U)		1.23 (U)					
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)	
9/17/2020								0.717 (U)
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)	
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)				
3/4/2021					0.32 (U)			1.22
9/23/2021						0.619 (U)	0.527 (U)	
9/27/2021								2.07
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)			
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)	
2/3/2022			0.798 (U)					1.15
2/4/2022		0.335 (U)						
8/23/2022	1.9						3.74	
8/24/2022			1.97	3.26				1.87
8/25/2022		1.79			1.32	1.65		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/24/2023					2.25			
1/25/2023		1.53 (U)				1.29 (U)		5.71
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28	
9/22/2023				2.71	2.33			1.55
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.577 (U)						
5/1/2018		0.27 (U)						
8/10/2018	1.91							
8/23/2018	1.86 (J+X)							
9/19/2018	1.64 (UX)							
10/29/2018	1.36 (U)							
11/28/2018	1.07 (U)							
12/20/2018	0.892 (U)							
1/17/2019	1.1 (U)							
1/19/2019					1.86			
2/13/2019	1.68							
8/29/2019	1.44							
10/16/2019	2.13							
10/18/2019					11.7 (U)			
3/4/2020	2.3							
8/20/2020	2.97				0.937 (U)			
9/17/2020	2.04				1.76			
3/3/2021				2.54				
3/4/2021	2.04				0.966 (U)			
3/5/2021			2.11					
9/27/2021					0.771 (U)			1.14 (U)
9/28/2021	3.28	0.526 (U)	1.05	1.89		1.66	2.79	
2/2/2022	2.33	0.244 (U)			0.992 (U)			1.16
2/3/2022			1	2.23		1.33	2.46	
8/24/2022				3.33	0.625	1.16	3.5	2.91
8/25/2022	4.97	1.6	2.26					
1/25/2023	7.94	2.49 (U)						
1/26/2023				3.7	1.53 (U)	4.03	5.31	3.2
1/27/2023			2.66 (U)					
9/22/2023		0.477 (U)	2.12		5.22	3.71	4.48	0.868 (U)
9/26/2023	6.36			1.27				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.768				
8/25/2022	1.52				
10/12/2022		2.14			
1/30/2023	6.03	3.5			
2/1/2023			4.16		
9/22/2023	2.31	0.877 (U)	1.62		
9/26/2023				0.811 (U)	3.11

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)	
9/1/2016	0.2 (J)	0.05 (J)						0.06 (J)
9/6/2016			0.42					
11/15/2016							0.13 (J)	0.06 (J)
11/16/2016	0.14 (J)	0.03 (J)		0.08 (J)	0.07 (J)	0.07 (J)		
11/17/2016			0.15 (J)					
2/20/2017						0.06 (J)	0.08 (J)	0.04 (J)
2/21/2017	0.16 (J)	0.04 (J)	0.1 (J)	0.14 (J)	0.05 (J)			
6/12/2017				0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)
6/13/2017		0.008 (J)	0.07 (J)		0.04 (J)			
6/14/2017	0.09 (J)							
9/26/2017	0.1 (J)	<0.1	<0.1	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1
2/13/2018				<0.1	<0.1	<0.1	<0.1	<0.1
2/14/2018	<0.3	<0.1	<0.1					
6/26/2018	0.079 (J)	0.042 (J)	0.053 (J)	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)
12/18/2018	<0.3	<0.1	<0.1	0.085 (J)	<0.1	<0.1	<0.1	<0.1
3/19/2019	<0.3	<0.1	<0.1	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)
8/27/2019	<0.3	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1
8/29/2019			0.084 (J)					
10/15/2019	0.047 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.045 (J)	<0.1
3/3/2020	0.056 (J)	<0.1		0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)
3/4/2020			<0.1					
8/18/2020	0.052 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
9/15/2020	0.062 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.051 (J)	<0.1
3/1/2021				<0.1				<0.1
3/2/2021	0.061 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	
9/21/2021	0.071 (J)	<0.1				<0.1	0.056 (J)	
9/22/2021			0.069 (J)	<0.1	<0.1			<0.1
2/1/2022	0.055 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
8/23/2022	0.151	0.129	0.157	<0.1	<0.1	<0.1	<0.1	<0.1
1/24/2023	0.214	0.0926 (J)	0.231	<0.1	<0.1	0.149	0.158	0.12
8/23/2023			0.114	0.267	0.229	0.289	0.277	0.0787 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.43				
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)			
11/17/2016	0.27 (J)							
11/18/2016		0.19 (J)						
11/21/2016			0.37	0.24 (J)	0.04 (J)			
2/21/2017	0.6	0.35						
2/22/2017			0.37	0.2 (J)	0.08 (J)			
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.38	0.15 (J)	0.09 (J)			
9/27/2017	0.5	0.4	0.4	0.41	<0.1			
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1			
3/6/2018						0.94	1.1	
3/15/2018								0.84 (JX)
5/1/2018						<0.1	0.595 (D)	0.91
6/26/2018	0.15 (J)							
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)	
6/28/2018				0.93 (J+X)		0.69 (J+X)		1.1 (J+X)
7/31/2018						<0.1		
8/1/2018							0.48	2
8/23/2018						<0.1	0.34	
9/19/2018						<0.1	0.23 (J)	
10/29/2018						<0.1	<0.1	0.24 (J)
11/28/2018						<0.1	0.063 (J)	0.41
12/18/2018	0.29 (J)		0.26 (J)	0.54				
12/19/2018					0.23 (J)		0.28 (J)	0.54
12/20/2018		0.26 (J)				0.12 (J)		
1/16/2019								1.1
3/19/2019		0.2 (J)					<0.1	
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)		0.21 (J)
8/27/2019	0.15 (J)			0.12 (J)	<0.1			
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.1	
8/29/2019								0.41
10/15/2019	0.16 (J)							
10/16/2019			0.11 (J)				0.076 (J)	0.39
12/3/2019						0.19 (J)		
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)			
3/4/2020	0.07 (J)	<0.3	<0.3				<0.1	0.14 (J)
3/5/2020				0.051 (J)	<0.1	<0.1		
8/19/2020	0.17	0.19	0.12	0.14	<0.1			
8/20/2020						<0.1	<0.1	0.39
9/15/2020	0.15		0.057 (J)					
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.1	
9/17/2020								0.46
3/2/2021	0.15					0.067 (J)	<0.1	
3/3/2021		0.24	0.13	0.13				
3/4/2021					<0.1			0.6
9/23/2021						0.06 (J)	<0.1	
9/27/2021								0.43
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1			
2/2/2022	0.15			0.1	<0.1	<0.1	<0.1	
2/3/2022			0.11					0.42
2/4/2022		0.14						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/23/2022	0.186						<0.1	
8/24/2022			0.103	0.318				0.497
8/25/2022		0.234			0.138	0.166		
1/24/2023					0.082 (J)			
1/25/2023		0.152				0.163		0.432
1/26/2023	0.202		0.0935 (J)	0.167			0.117	
8/23/2023				0.116	0.0477 (J)			
8/24/2023								0.499
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.3						
5/1/2018		<0.3						
8/10/2018	1.6 (O)							
8/23/2018	0.32							
9/19/2018	0.22 (J)							
10/29/2018	0.14 (J)							
11/28/2018	0.24 (J)							
12/20/2018	0.3							
1/17/2019	0.23 (J)							
1/19/2019					<0.1			
2/13/2019	<0.3							
3/20/2019	0.135 (JD)							
8/29/2019	0.087 (J)							
10/16/2019	0.22 (J)							
10/18/2019					<0.1			
3/4/2020	0.1 (J)							
8/20/2020	0.23				<0.1			
9/17/2020	0.074 (J)				<0.1			
10/27/2020			0.28	0.21	<0.1			
3/3/2021				0.28				
3/4/2021	0.28				0.061 (J)			
3/5/2021			0.16					
9/27/2021					<0.1			0.067 (J)
9/28/2021	0.12	0.08 (J)	0.11	0.26		0.97	1.6	
2/2/2022	0.098 (J)	0.065 (J)			<0.1			<0.1
2/3/2022			0.15	0.27		1.8	2.3	
8/24/2022				0.318	0.148	1.09	1.32	0.103
8/25/2022	0.157	0.184	0.106					
1/25/2023	0.169	0.13						
1/26/2023				0.354	0.12	1.19	1.66	0.184
1/27/2023			0.151 (J)					
8/23/2023								0.188
8/24/2023		0.195	0.193		0.0744 (J)	1.1	1.32	
8/25/2023	0.188 (J)			0.395				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.14				
8/25/2022	0.235				
10/12/2022		0.0781 (J)			
1/30/2023	0.23	0.0767 (J)			
2/1/2023			0.166		
8/24/2023	0.252	0.135	0.218		
8/25/2023				0.157	0.14

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.002	<0.002	<0.002	<0.002	
9/1/2016	<0.002	<0.002						0.0001 (J)
9/6/2016			<0.002					
11/15/2016							<0.002	<0.002
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002		
11/17/2016			<0.002					
2/20/2017						<0.002	0.0002 (J)	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
6/12/2017				8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)
6/13/2017		<0.002	<0.002		<0.002			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.002	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002
2/13/2018				<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002					
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002
8/29/2019			7E-05 (J)					
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)
3/4/2020			<0.002					
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0001 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002
3/1/2021				<0.002				<0.002
3/2/2021	<0.002	<0.002	<0.002		<0.002	3.7E-05 (J)	<0.002	
9/21/2021	<0.002	<0.002				<0.002	<0.002	
9/22/2021			<0.002	<0.002	<0.002			<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	0.0004 (J)		<0.002			
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0006 (J)	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017			0.0005 (J)	<0.002	<0.002			
6/13/2017	<0.002	<0.002						
6/14/2017			0.0004 (J)	<0.002	<0.002			
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002	<0.002			
2/14/2018	<0.002	<0.002	<0.005 (o)	<0.002	<0.002			
3/6/2018						<0.002	<0.002	
3/15/2018								<0.002
5/1/2018						<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002							
6/27/2018		<0.002	0.00032 (J)		<0.002		<0.002	
6/28/2018				<0.002		<0.002		0.00054 (J)
7/31/2018						<0.002		
8/1/2018							<0.002	<0.002
8/23/2018						<0.002	<0.002	
9/19/2018						<0.002	<0.002	
10/29/2018						<0.002	<0.002	0.0003 (J)
11/28/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00038 (J)	<0.002				
12/19/2018					<0.002		<0.002	<0.002
12/20/2018		<0.002				<0.002		
1/16/2019								<0.002
8/27/2019	0.00011 (J)			<0.002	<0.002			
8/28/2019		<0.002	0.00027 (J)			<0.002	<0.002	
8/29/2019								4.9E-05 (J)
10/15/2019	<0.002							
10/16/2019			0.00027 (J)				<0.002	8.5E-05 (J)
12/3/2019						<0.002		
12/4/2019		6.3E-05 (J)		<0.002	<0.002			
3/4/2020	<0.002	<0.002	0.0003 (J)				0.00012 (J)	0.0001 (J)
3/5/2020				<0.002	<0.002	0.00026 (J)		
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002	<0.002			
8/20/2020						0.00021 (J)	4.8E-05 (J)	6.7E-05 (J)
9/15/2020	<0.002		0.00029 (J)					
9/16/2020		<0.002		0.00011 (J)	<0.002	5.3E-05 (J)	6.6E-05 (J)	
9/17/2020								0.00015 (J)
3/2/2021	<0.002					<0.002	<0.002	
3/3/2021		<0.002	0.00033 (J)	<0.002				
3/4/2021					<0.002			0.00016 (J)
9/23/2021						<0.002	<0.002	
9/27/2021								<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					<0.002
2/4/2022		<0.002						
8/23/2022	<0.002						<0.002	
8/24/2022			<0.002	<0.002				<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002	<0.002		
1/24/2023					<0.002			
1/25/2023		<0.002				0.000595 (J)		<0.002
1/26/2023	<0.002		<0.002	<0.002			<0.002	
8/31/2023				<0.002	<0.002			
9/6/2023	<0.002	<0.002	<0.002			<0.002	<0.002	
9/8/2023								<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
 Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.002						
5/1/2018		<0.002						
8/10/2018	<0.002							
8/23/2018	<0.002							
9/19/2018	<0.002							
10/29/2018	<0.002							
11/28/2018	<0.002							
12/20/2018	<0.002							
1/17/2019	<0.002							
1/19/2019					<0.002			
2/13/2019	<0.002							
8/29/2019	<0.002							
10/16/2019	<0.002							
10/18/2019					<0.002			
3/4/2020	<0.002							
8/20/2020	<0.002				<0.002			
9/17/2020	<0.002				0.00036 (J)			
3/3/2021				0.00013 (J)				
3/4/2021	4.2E-05 (J)				0.00017 (J)			
3/5/2021			5.6E-05 (J)					
9/27/2021					<0.002			0.0019
9/28/2021	<0.002	<0.002	<0.002	<0.002		<0.005	<0.002	
2/2/2022	<0.002	<0.002			<0.002			<0.002
2/3/2022			<0.002	<0.002		<0.005	<0.002	
8/24/2022				<0.002	<0.002	0.000894 (J)	<0.002	0.00113 (J)
8/25/2022	<0.002	<0.002	<0.002					
1/25/2023	<0.002	<0.002						
1/26/2023				<0.002	<0.002	0.000895 (J)	<0.002	<0.002
1/27/2023			<0.002					
8/31/2023								<0.002
9/6/2023	<0.002			<0.002				
9/8/2023		<0.002	<0.002		<0.002	0.00086 (J)	<0.002	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.002				
8/25/2022	<0.002				
10/12/2022		<0.002			
1/30/2023	<0.002	<0.002			
2/1/2023			<0.002		
9/6/2023				<0.002	<0.002
9/8/2023	<0.002	<0.002	<0.002		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0268 (J)	<0.01	<0.01	<0.01	
9/1/2016	0.0061 (J)	<0.01						0.003 (J)
9/6/2016			0.0028 (J)					
11/15/2016							<0.01	0.0033 (J)
11/16/2016	0.0054 (J)	<0.01		0.0201 (J)	<0.01	0.0033 (J)		
11/17/2016			0.0063 (J)					
2/20/2017						<0.01	<0.01	0.0025 (J)
2/21/2017	0.0058 (J)	<0.01	0.0052 (J)	0.0128 (J)	<0.01			
6/12/2017				0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)
6/13/2017		<0.01	0.0061 (J)		<0.01			
6/14/2017	0.0054 (J)							
9/26/2017	0.0037 (J)	<0.01	0.0087 (J)	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)
2/13/2018				0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)
2/14/2018	0.0038 (J)	<0.01	0.0104 (J)					
6/26/2018	0.0045 (J)	<0.01	0.0095 (J)	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)
12/18/2018	0.0038 (J)	<0.01	0.0091 (J)	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)
8/27/2019	0.0039 (J)	<0.01		0.035	<0.01	0.0019 (J)	<0.01	0.0028 (J)
8/29/2019			0.007 (J)					
10/15/2019	0.0037 (J)	<0.01	0.0069 (J)	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)
3/3/2020	0.0033 (J)	<0.01		0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)
3/4/2020			0.0074 (J)					
8/18/2020	0.0039 (J)	<0.01	0.0099 (J)	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)
9/15/2020	0.0037 (J)	<0.01	0.011 (J)	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)
3/1/2021				0.027 (J)				0.0036 (J)
3/2/2021	0.0045 (J)	<0.01	0.0093 (J)		<0.01	0.00081 (J)	<0.01	
9/21/2021	0.0037 (J)	<0.01				0.0012 (J)	<0.01	
9/22/2021			0.0074 (J)	0.021 (J)	<0.01			0.0035 (J)
2/1/2022	0.0037 (J)	<0.01	0.008 (J)	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)
8/23/2022	0.00451 (J)	<0.01	0.00792 (J)	0.0262	<0.01	<0.01	<0.01	0.00314 (J)
1/24/2023	0.00529 (J)	<0.01	0.00749 (J)	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)
8/31/2023			0.00596 (J)	0.0209	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0117 (J)				
9/8/2016	<0.01	0.0021 (J)	0.004 (J)		<0.05			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			0.0039 (J)	0.0108 (J)	<0.05			
2/21/2017	<0.01	<0.01						
2/22/2017			0.0043 (J)	0.0103 (J)	0.0023 (J)			
6/13/2017	<0.01	0.0017 (J)						
6/14/2017			0.0036 (J)	0.0101 (J)	0.0022 (J)			
9/27/2017	<0.01	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)			
2/14/2018	<0.01	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)			
3/6/2018						0.0031 (J)	0.0399 (J)	
3/15/2018								0.038 (J)
5/1/2018						0.0038 (J)	0.0475 (JD)	0.042 (J)
6/26/2018	<0.01							
6/27/2018		0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)	
6/28/2018				0.013 (J)		0.0028 (J)		0.04 (J)
7/31/2018						<0.25 (o)		
8/1/2018							0.039 (J)	0.036 (J)
8/23/2018						0.0033 (J)	0.044 (J)	
9/19/2018						0.0033 (J)	0.043 (J)	
10/29/2018						0.003 (J)	0.039 (J)	0.041 (J)
11/28/2018						0.0035 (J)	0.044 (J)	0.041 (J)
12/18/2018	<0.01		0.0032 (J)	0.014 (J)				
12/19/2018					0.0018 (J)		0.043 (J)	0.043 (J)
12/20/2018		0.0015 (J)				0.003 (J)		
1/16/2019								0.042 (J)
8/27/2019	<0.01			0.016 (J)	0.0022 (J)			
8/28/2019		0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044	
8/29/2019								0.039
10/15/2019	<0.01							
10/16/2019			0.0029 (J)				0.038	0.034
12/3/2019						0.0033 (J)		
12/4/2019		0.0014 (J)		0.013 (J)	0.0022 (J)			
3/4/2020	<0.01	0.0014 (J)	0.0029 (J)				0.042	0.042
3/5/2020				0.016 (J)	0.0022 (J)	0.003 (J)		
8/19/2020	<0.01	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)			
8/20/2020						0.0034 (J)	0.044	0.04
9/15/2020	<0.01		0.003 (J)					
9/16/2020		0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039	
9/17/2020								0.052
3/2/2021	<0.01					0.0043 (J)	0.044	
3/3/2021		0.0012 (J)	0.0032 (J)	0.014 (J)				
3/4/2021					0.002 (J)			0.05
9/23/2021						0.0023 (J)	0.042	
9/27/2021								0.038
9/28/2021	<0.01	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			
2/2/2022	<0.01			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	
2/3/2022			0.0026 (J)					0.038
2/4/2022		0.001 (J)						
8/23/2022	<0.01						0.0474	
8/24/2022			0.00304 (J)	0.0238				0.0428

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.01			0.0043 (J)	<0.01		
1/24/2023					0.007 (J)			
1/25/2023		<0.01				0.00333 (J)		0.0542
1/26/2023	<0.01		0.00331 (J)	0.0279			0.0506	
8/31/2023				0.0253	0.00392 (J)			
9/6/2023	<0.01	<0.01	0.00349 (J)			<0.01	0.0532	
9/8/2023								0.0393

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0046 (J)						
5/1/2018		0.0049 (J)						
8/10/2018	0.0087 (J)							
8/23/2018	0.0089 (J)							
9/19/2018	0.005 (J)							
10/29/2018	0.0048 (J)							
11/28/2018	0.0052 (J)							
12/20/2018	0.0042 (J)							
1/17/2019	0.0039 (J)							
1/19/2019					0.019 (J)			
2/13/2019	<0.05							
8/29/2019	0.0052 (J)							
10/16/2019	0.0023 (J)							
10/18/2019					0.019 (J)			
3/4/2020	0.002 (J)							
8/20/2020	0.0022 (J)				0.019 (J)			
9/17/2020	0.0058 (J)				0.021 (J)			
3/3/2021				0.0093 (J)				
3/4/2021	0.003 (J)				0.026 (J)			
3/5/2021			0.019 (J)					
9/27/2021					0.02 (J)			0.0095 (J)
9/28/2021	0.0035 (J)	0.0048 (J)	0.02 (J)	0.0096 (J)		0.041	0.1	
2/2/2022	0.0041 (J)	0.0058 (J)			0.021 (J)			0.011 (J)
2/3/2022			0.024 (J)	0.0096 (J)		0.041	0.098	
8/24/2022				0.0042 (J)	0.0222	0.0488	0.101	0.00913 (J)
8/25/2022	0.0162	0.00652 (J)	0.0255					
1/25/2023	0.0186	0.00728 (J)						
1/26/2023				0.00883 (J)	0.0247	0.0553	0.114	0.0123
1/27/2023			0.0274					
8/31/2023								0.0106
9/6/2023	0.0131			0.00667 (J)				
9/8/2023		0.0056 (J)	0.0232		0.0221	0.0468	0.0936	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.007 (J)				
8/25/2022	0.00509 (J)				
10/12/2022		0.0181			
1/30/2023	0.0066 (J)	0.0187			
2/1/2023			0.00899 (J)		
9/6/2023				0.00711 (J)	0.00579 (J)
9/8/2023	0.00516 (J)	0.0126	0.00399 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2016	<0.0002	<0.0002						<0.0002
9/6/2016			<0.0002					
11/15/2016							<0.0002	<0.0002
11/16/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		
11/17/2016			<0.0002					
2/20/2017						<0.0002	8E-05 (J)	<0.0002
2/21/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/12/2017				4E-05 (J)		<0.0002	<0.0002	<0.0002
6/13/2017		<0.0002	<0.0002		<0.0002			
6/14/2017	6E-05 (J)							
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018				0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002
2/14/2018	5.2E-05 (J)	<0.0002	<0.0002					
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<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	<0.0002	<0.0002
8/29/2019			<0.0002					
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021				<0.0002				<0.0002
3/2/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
9/21/2021	0.0001 (J)	0.0001 (J)				0.0001 (J)	0.0001 (J)	
9/22/2021			0.0001 (J)	0.0001 (J)	0.0001 (J)			0.0001 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0002				
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002			
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016			<0.0002	<0.0002	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017			<0.0002	<0.0002	<0.0002			
6/13/2017	<0.0002	5E-05 (J)						
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)			
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)			
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/6/2018						<0.0002	<0.0002	
3/15/2018								<0.0002
5/1/2018						<0.0002	<0.0002 (D)	<0.0002
6/26/2018	<0.0002							
6/27/2018		<0.0002	<0.0002		<0.0002		<0.0002	
6/28/2018				<0.0002		<0.0002		<0.0002
7/31/2018						<0.0002		
8/1/2018							<0.0002	<0.0002
8/23/2018						<0.0002	<0.0002	
9/19/2018						<0.0002	<0.0002	
10/29/2018						<0.0002	<0.0002	<0.0002
11/28/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002		<0.0002	<0.0002				
12/19/2018					<0.0002		<0.0002	<0.0002
12/20/2018		<0.0002				<0.0002		
1/16/2019								<0.0002
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		<0.0002	<0.0002			<0.0002	<0.0002	
8/29/2019								<0.0002
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)			
8/20/2020						<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002		<0.0002					
9/16/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020								<0.0002
3/2/2021	<0.0002					<0.0002	<0.0002	
3/3/2021		<0.0002	<0.0002	<0.0002				
3/4/2021					<0.0002			<0.0002
9/23/2021						<0.0002	<0.0002	
9/27/2021								<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/2/2022	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	
2/3/2022			<0.0002					<0.0002
2/4/2022		<0.0002						
8/23/2022	<0.0002						<0.0002	
8/24/2022			<0.0002	<0.0002				<0.0002
8/25/2022		<0.0002			<0.0002	<0.0002		
1/24/2023					<0.0002			
1/25/2023		<0.0002				<0.0002		<0.0002
1/26/2023	<0.0002		<0.0002	<0.0002			<0.0002	
8/25/2023				<0.0002	<0.0002			
8/29/2023	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0002						
5/1/2018		<0.0002						
8/10/2018	<0.0002							
8/23/2018	<0.0002							
9/19/2018	<0.0002							
10/29/2018	<0.0002							
11/28/2018	<0.0002							
12/20/2018	<0.0002							
1/17/2019	<0.0002							
1/19/2019					<0.0002			
2/13/2019	<0.0002							
8/29/2019	<0.0002							
10/18/2019					<0.0002			
8/20/2020	<0.0002				9.9E-05 (J)			
9/17/2020	<0.0002				<0.0002			
3/3/2021				<0.0002				
3/4/2021	<0.0002				<0.0002			
3/5/2021			<0.0002					
9/27/2021					<0.0002			<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
2/2/2022	<0.0002	<0.0002			<0.0002			<0.0002
2/3/2022			<0.0002	<0.0002		<0.0002	<0.0002	
8/24/2022				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002					
1/25/2023	<0.0002	<0.0002						
1/26/2023				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/27/2023			<0.0002					
8/25/2023								<0.0002
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0002				
8/25/2022	<0.0002				
10/12/2022		<0.0002			
1/30/2023	<0.0002	<0.0002			
2/1/2023			<0.0002		
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0021 (J)	<0.001	0.004 (J)	<0.001	
9/1/2016	0.002 (J)	<0.001						<0.001
9/6/2016			0.0028 (J)					
11/15/2016							<0.001	<0.001
11/16/2016	<0.01	<0.001		<0.01	<0.001	0.0038 (J)		
11/17/2016			<0.001					
2/20/2017						0.0055 (J)	<0.001	<0.001
2/21/2017	<0.01	<0.001	<0.001	0.0021 (J)	<0.001			
6/12/2017				0.0021 (J)		0.005 (J)	<0.001	<0.001
6/13/2017		<0.001	<0.001		<0.001			
6/14/2017	<0.01							
9/26/2017	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001
2/13/2018				0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001
2/14/2018	<0.01	<0.001	<0.001					
6/26/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0041 (J)	<0.001	<0.001
12/18/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0048 (J)	<0.001	<0.001
8/27/2019	<0.01	<0.001		<0.01	<0.001	0.0028 (J)	<0.001	<0.001
8/29/2019			<0.001					
10/15/2019	<0.01	<0.001	<0.001	<0.01	<0.001	0.0035 (J)	<0.001	<0.001
3/3/2020				<0.01	<0.001	0.0023 (J)	<0.001	<0.001
8/18/2020	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001
9/15/2020	<0.01	<0.001	<0.001	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001
3/1/2021				<0.01				<0.001
3/2/2021	<0.01	<0.001	<0.001		<0.001	0.0015 (J)	<0.001	
9/21/2021	<0.01	<0.001				0.002 (J)	<0.001	
9/22/2021			<0.001	0.0012 (J)	<0.001			<0.001
2/1/2022	<0.01	<0.001	<0.001	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001
8/23/2022	0.000413 (J)	<0.001	<0.001	0.0024	<0.001	0.00151	<0.001	<0.001
1/24/2023	0.000388 (J)	<0.001	<0.001	0.000601 (J)	<0.001	0.00192	<0.001	<0.001
8/31/2023			<0.001	0.00169	<0.001	0.000953 (J)	<0.001	<0.001

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.01				
9/8/2016	<0.01	<0.001	<0.001		<0.001			
11/17/2016	<0.01							
11/18/2016		<0.001						
11/21/2016			<0.001	<0.01	<0.001			
2/21/2017	<0.01	<0.001						
2/22/2017			<0.001	<0.01	<0.001			
6/13/2017	<0.01	<0.001						
6/14/2017			<0.001	<0.01	<0.001			
9/27/2017	<0.01	<0.001	<0.001	<0.01	<0.001			
2/14/2018	<0.01	<0.001	<0.001	<0.01	<0.001			
3/6/2018						<0.01	<0.01	
3/15/2018								<0.001
5/1/2018						<0.01	<0.01 (D)	0.0022 (J)
6/26/2018	<0.01							
6/27/2018		<0.001	<0.001		<0.001		<0.01	
6/28/2018				<0.01		<0.01		<0.001
7/31/2018						<0.01		
8/1/2018							<0.01	0.0033 (J)
8/23/2018						<0.01	<0.01	
9/19/2018						<0.01	<0.01	
10/29/2018						<0.01	<0.01	<0.001
11/28/2018						<0.01	<0.01	<0.001
12/18/2018	<0.01		<0.001	<0.01				
12/19/2018					<0.001		<0.01	<0.001
12/20/2018		<0.001				<0.01		
1/16/2019								<0.001
8/27/2019	<0.01			<0.01	<0.001			
8/28/2019		<0.001	<0.001			<0.01	<0.01	
8/29/2019								<0.001
10/15/2019	<0.01							
10/16/2019			<0.001				<0.01	<0.001
12/3/2019						<0.01		
12/4/2019		<0.001		<0.01	<0.001			
8/19/2020	0.00081 (J)	<0.001	<0.001	0.00078 (J)	<0.001			
8/20/2020						0.00076 (J)	<0.01	<0.001
9/15/2020	0.0008 (J)		<0.001					
9/16/2020		<0.001		0.0022 (J)	<0.001	<0.01	<0.01	
9/17/2020								<0.001
3/2/2021	0.001 (J)					<0.01	<0.01	
3/3/2021		<0.001	<0.001	<0.01				
3/4/2021					<0.001			<0.001
9/23/2021						<0.01	<0.01	
9/27/2021								<0.001
9/28/2021	0.00089 (J)	<0.001	<0.001	0.001 (J)	<0.001			
2/2/2022	0.0011 (J)			0.0012 (J)	<0.001	<0.01	<0.01	
2/3/2022			<0.001					<0.001
2/4/2022		<0.001						
8/23/2022	0.00105						0.000296 (J)	
8/24/2022			<0.001	0.00141				<0.001
8/25/2022		<0.001			<0.001	0.000424 (J)		
1/24/2023					<0.001			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/25/2023		<0.001				0.000545 (J)		<0.001
1/26/2023	0.00092 (J)		<0.001	0.0014			0.00027 (J)	
8/31/2023				0.00111	<0.001			
9/6/2023	0.00141	<0.001	<0.001			0.000356 (J)	0.000296 (J)	
9/8/2023								<0.001

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/10/2018	0.0032 (J)							
8/23/2018	0.005 (J)							
9/19/2018	0.0061 (J)							
10/29/2018	0.0065 (J)							
11/28/2018	0.0027 (J)							
12/20/2018	<0.01							
1/17/2019	<0.01							
1/19/2019					<0.001			
2/13/2019	<0.01							
8/29/2019	<0.01							
10/16/2019	<0.01							
10/18/2019					<0.001			
8/20/2020	0.0012 (J)				<0.001			
9/17/2020	0.0007 (J)				<0.001			
3/3/2021				0.0068 (J)				
3/4/2021	0.001 (J)				<0.001			
3/5/2021			0.0017 (J)					
9/27/2021					<0.001			<0.001
9/28/2021	<0.01	<0.001	0.0021 (J)	0.0029 (J)		<0.001	<0.001	
2/2/2022	<0.01	<0.001			<0.001			<0.001
2/3/2022			0.0012 (J)	0.0017 (J)		<0.001	<0.001	
8/24/2022				0.00171	0.000313 (J)	<0.001	<0.001	<0.001
8/25/2022	0.000471 (J)	<0.001	0.00109					
1/25/2023	0.000609 (J)	<0.001						
1/26/2023				0.00085 (J)	0.000283 (J)	<0.001	<0.001	<0.001
1/27/2023			0.000817 (J)					
8/31/2023								<0.001
9/6/2023	0.000782 (J)			0.00142				
9/8/2023		<0.001	<0.001		<0.001	<0.001	<0.001	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.00092 (J)				
8/25/2022	0.000741 (J)				
10/12/2022		0.000432 (J)			
1/30/2023	0.000803 (J)	0.000201 (J)			
2/1/2023			0.0111		
9/6/2023				0.000597 (J)	<0.001
9/8/2023	0.000539 (J)	<0.001	0.00625		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.16	6.2	6.53	6.59	
9/1/2016	6.71	6						6.49
9/6/2016			6.49					
11/15/2016							6.67	6.59
11/16/2016	6.15	6		6.96	6.12	6.4		
11/17/2016			5.79					
2/20/2017						6.44	6.65	6.61
2/21/2017	6.52	6.09	6.15	7.15	6.24			
6/12/2017				7.31		6.4	6.64	
6/13/2017	6.42	6.03	5.87		6.19			
6/14/2017	6.51							
9/26/2017	6.42	5.85	5.82	7.02	6.15	6.31	6.58	6.47
2/13/2018				7.44	6.18	6.62	6.72	6.54
2/14/2018	6.48	5.99	5.83					
6/26/2018	6.2	5.86	5.73	6.93	6.05	6.29	6.43	6.23
7/31/2018	6.37	5.99						
12/18/2018	6.5	6.08	5.78	6.76	5.92	6.57	6.7	6.71
3/19/2019	6.28	5.71	5.28	6.87	6.18	6.45	6.63	6.18
8/27/2019	6.35	6		6.79	6.09	6.37	6.49	6.35
8/29/2019			5.64					
10/15/2019	6.8	6.61	5.7	6.57	6.06	6.77	7.01	6.36
3/3/2020	6.33	5.94		6.71	6.1	6.29	6.49	6.59
3/4/2020			5.7					
8/18/2020	6.25	5.75	5.56	6.59	6.06	6.29	6.41	6.33
9/15/2020	6.01	6	5.72	6.64	6.01	6.27	6.25	6.43
3/1/2021				6.66				6.7
3/2/2021	6.11	5.92	5.75		6.2	6.47	6.42	
9/21/2021	6.53	5.87				6.32	6.36	
9/22/2021			5.72	6.78	6.06			6.48
2/1/2022	6.4	5.81	5.65	6.83	5.95	6.38	6.39	6.54
8/23/2022	6.39	5.9	5.66	6.67	5.95	6.24	6.36	6.51
1/24/2023	6.48	5.97	5.76	6.7	5.26	6.42	6.47	6.54
8/22/2023			5.89	6.91	5.97	6.36	6.09	6.27

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			4.39	6.38				5.01
8/25/2022		6.03			6.06	5.74		
1/24/2023					6.05			
1/25/2023		5.63				5.82		5.18
1/26/2023	6.18		4.3	6.28			5.65	
8/22/2023				6.44	5.98			
8/23/2023								5.12
8/24/2023	6.14	6.01	4.48			5.71	5.69	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
5/1/2018		6.12						
8/3/2018					5.47			
8/10/2018	6.28							
8/23/2018	6.75							
9/19/2018	6.48							
10/29/2018	6.77							
11/28/2018	6.44							
12/20/2018	6.75							
1/17/2019	6.41							
1/19/2019					5.45			
2/13/2019	6.42							
3/20/2019	6.59							
8/29/2019	6.27							
10/16/2019	7							
10/18/2019					5.79			
3/4/2020	6.54							
8/20/2020	6.85				5.57			
9/17/2020	6.12				4.93			
10/27/2020			6.47	6.79	5.49			
3/3/2021				7.1				
3/4/2021	5.87				4.57			
3/5/2021			7.06					
9/27/2021					5.34			5.02
9/28/2021	6.81	6.22	6.23	7.18		4	4.77	
2/2/2022	6.35	6.2			5.44			5.25
2/3/2022			6.24	6.77		3.9	4.73	
8/24/2022				7.15	5.49	3.81	4.55	5.14
8/25/2022	6.21	6.06	6.11					
1/25/2023	6.25	6.13						
1/26/2023				7.2	5.44	3.93	4.6	5.16
1/27/2023			6.24					
8/22/2023								5.16
8/23/2023			6.09		5.37	3.99	4.58	
8/24/2023	6.24			7.07				

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	5.89				
8/25/2022	5.65				
10/12/2022		5.53			
1/30/2023	5.66	5.33			
2/1/2023			7.28		
8/23/2023	5.68	5.21	7.41		
8/24/2023				5.89	5.76

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.005	<0.005	<0.005	<0.005	
9/1/2016	<0.005	<0.005						<0.005
9/6/2016			<0.005					
11/15/2016							<0.005	<0.005
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005		
11/17/2016			0.0052 (J)					
2/20/2017						<0.005	<0.005	<0.005
2/21/2017	<0.005	<0.005	0.0018 (J)	<0.005	<0.005			
6/12/2017				<0.005		<0.005	<0.005	<0.005
6/13/2017		<0.005	<0.005		<0.005			
6/14/2017	<0.005							
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018				<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	<0.005					
6/26/2018	<0.005	<0.005	0.0036 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	0.0044 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2019			0.0023 (J)					
10/15/2019	<0.005	<0.005	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
3/3/2020	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/4/2020			0.0019 (J)					
8/18/2020	<0.005	<0.005	0.0033 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	0.0028 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021				<0.005				<0.005
3/2/2021	<0.005	<0.005	0.006		<0.005	<0.005	<0.005	
9/21/2021	<0.005	<0.005				<0.005	<0.005	
9/22/2021			0.0016 (J)	<0.005	<0.005			<0.005
2/1/2022	<0.005	<0.005	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.005				
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01			
11/17/2016	<0.005							
11/18/2016		0.0047 (J)						
11/21/2016			0.0058 (J)	<0.005	<0.01			
2/21/2017	<0.005	0.0025 (J)						
2/22/2017			0.005 (J)	<0.005	0.0017 (J)			
6/13/2017	<0.005	0.0036 (J)						
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01			
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01			
3/6/2018						<0.005	<0.005	
3/15/2018								<0.005
5/1/2018						<0.005	<0.005 (D)	<0.005
6/26/2018	<0.005							
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.005	
6/28/2018				<0.005		<0.005		<0.005
7/31/2018						<0.005		
8/1/2018							0.0015 (J)	0.0031 (J)
8/23/2018						<0.005	<0.005 (X)	
9/19/2018						<0.005	0.002 (J)	
10/29/2018						<0.005	<0.005	0.002 (J)
11/28/2018						<0.005	<0.005	0.0017 (J)
12/18/2018	<0.005		<0.005	<0.005				
12/19/2018					0.0059 (J)		<0.005	<0.005
12/20/2018		<0.005				<0.005		
1/16/2019								<0.005
8/27/2019	<0.005			0.0038 (J)	0.057			
8/28/2019		0.0017 (J)	<0.005			<0.005	<0.005	
8/29/2019								<0.005
10/15/2019	<0.005							
10/16/2019			<0.005				0.0017 (J)	0.002 (J)
12/3/2019						0.0029 (J)		
12/4/2019		0.0036 (J)		0.0018 (J)	0.1			
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)				<0.005	0.0026 (J)
3/5/2020				<0.005	0.1	<0.005		
5/12/2020					0.0989			
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099			
8/20/2020						<0.005	0.0016 (J)	0.0037 (J)
9/15/2020	<0.005		<0.005					
9/16/2020		0.0042 (J)		<0.005	0.12	<0.005	0.002 (J)	
9/17/2020								<0.005
3/2/2021	0.0021 (J)					<0.005	0.0028 (J)	
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005				
3/4/2021					0.14			0.0039 (J)
9/23/2021						<0.005	<0.005	
9/27/2021								0.0022 (J)
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13			
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005	
2/3/2022			<0.005					<0.005
2/4/2022		<0.005						
8/23/2022	<0.005						<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.005	<0.005				0.00176 (J)
8/25/2022		<0.005			0.218	<0.005		
1/24/2023					0.198			
1/25/2023		<0.005				<0.005		0.00189 (J)
1/26/2023	<0.005		<0.005	<0.005			<0.005	
8/31/2023				<0.005	0.21			
9/6/2023	<0.005	<0.005	<0.005			<0.005	<0.005	
9/8/2023								<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.005						
5/1/2018		<0.005						
8/10/2018	<0.005							
8/23/2018	<0.005							
9/19/2018	<0.005							
10/29/2018	<0.005							
11/28/2018	<0.005							
12/20/2018	<0.005							
1/17/2019	<0.005							
1/19/2019					<0.005			
2/13/2019	<0.005							
8/29/2019	<0.005							
10/16/2019	<0.005							
10/18/2019					<0.005			
3/4/2020	<0.005							
8/20/2020	<0.005				<0.005			
9/17/2020	<0.005				<0.005			
3/3/2021				<0.005				
3/4/2021	<0.005				<0.005			
3/5/2021			<0.005					
9/27/2021					<0.005			0.0079
9/28/2021	<0.005	<0.005	<0.005	<0.005		0.0034 (J)	0.0049 (J)	
2/2/2022	<0.005	<0.005			<0.005			0.0031 (J)
2/3/2022			<0.005	<0.005		0.0016 (J)	0.0026 (J)	
8/24/2022				<0.005	<0.005	0.00348 (J)	0.00417 (J)	0.0051
8/25/2022	<0.005	<0.005	<0.005					
1/25/2023	<0.005	<0.005						
1/26/2023				<0.005	<0.005	0.00265 (J)	0.0031 (J)	0.00321 (J)
1/27/2023			<0.005					
8/31/2023								0.00483 (J)
9/6/2023	<0.005			<0.005				
9/8/2023		<0.005	<0.005		<0.005	0.00494 (J)	0.0043 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.0171			
1/30/2023	<0.005	0.0292			
2/1/2023			<0.005		
9/6/2023				0.0423	0.0696
9/8/2023	<0.005	0.0163	<0.005		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.5	0.38 (J)	2.7	0.81 (J)	
9/1/2016	2.7	1.7						0.6 (J)
9/6/2016			38					
11/15/2016							<1 (J)	0.68 (J)
11/16/2016	3.6	1.2		6.6	<1 (J)	3.4		
11/17/2016			84					
2/20/2017						3.9 (B-01)	1 (B-01)	0.98 (J)
2/21/2017	3	1.1	39	6.1	1.5			
6/12/2017				5		3.7	0.94 (J)	0.54 (J)
6/13/2017		1.1	35		0.67 (J)			
6/14/2017	2.6							
9/26/2017	2.5	1.3	89	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)
2/13/2018				4.7 (J)	<1	6.6	<1	<1
2/14/2018	2.1 (J)	<1	82.2					
6/26/2018	2	0.84 (J)	84.2	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)
7/31/2018	1.9	0.63 (J)						
12/18/2018	2.1	0.66 (J)	83.4	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)
3/19/2019	2.2	0.75 (J)	65	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)
10/15/2019	1.9	0.61 (J)	30	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)
3/3/2020	1.8	0.51 (J)		7.1	0.93 (J)	2.8	0.71 (J)	2.5
3/4/2020			38.6					
9/15/2020	1.7	<1	41.5	5.9	<1	1.7	<1	<1
3/1/2021				4.7				0.74 (J)
3/2/2021	1.7	0.51 (J)	54		<1	2.2	<1	
9/21/2021	1.7	0.51 (J)				2.3	<1	
9/22/2021			34.6	5.2	<1			<1
2/1/2022	1.4	<1	36.8	5.4	<1	2	<1	<1
8/23/2022	1.84	0.636	24.4	5.66	0.452	2.21	0.521	0.479
1/24/2023	1.8	0.628	19.7	3.58	0.465	3.34	0.66	0.484
8/23/2023			11.3	6.85	0.526	1.83	0.54	0.467

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				310				
9/8/2016	280	300	460		370			
11/17/2016	200							
11/18/2016		320						
11/21/2016			500	300	420			
2/21/2017	360	270						
2/22/2017			570	280	380			
6/13/2017	290	230						
6/14/2017			440	290	400			
9/27/2017	310	260	380	260	400			
2/14/2018	260	232	280	250	383			
3/6/2018						111	1560	
3/15/2018								1590
5/1/2018						112	1465 (D)	1550
6/26/2018	231							
6/27/2018		205	281		372		1450	
6/28/2018				276		109		1530
7/31/2018						107		
8/1/2018							1560	1580
8/23/2018						108	1470	
9/19/2018						117	1500	
10/29/2018						127	1720	1750
11/28/2018						133	1730	1780
12/18/2018	231		293	440				
12/19/2018					370		1520	1650
12/20/2018		200				113		
1/16/2019								589 (O)
3/19/2019		199					1100	
3/20/2019	235 (D)		278	623	409	127		1740
10/15/2019	174							
10/16/2019			266				1560	1590
12/3/2019						105		
12/4/2019		241		327	293			
3/4/2020	165	205	238				1380	1370
3/5/2020				369	269	106		
9/15/2020	126		241					
9/16/2020		190		334	255	103	1360	
9/17/2020								1330
3/2/2021	139					98.3	1360	
3/3/2021		172	341	371				
3/4/2021					185			1250
9/23/2021						97.5	1240	
9/27/2021								1180
9/28/2021	112	137	250	612	189			
2/2/2022	117			580	210	90.1	1170	
2/3/2022			274					1270
2/4/2022		172						
8/23/2022	158						1410	
8/24/2022			298	935				1400
8/25/2022		176			254	114		
1/24/2023					247			
1/25/2023		150				102		1290

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	182		293	1030			1310	
8/24/2023				1250	256			
8/25/2023	174						1300	1290
8/26/2023		94.5	288			114		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		51.8						
5/1/2018		51						
8/3/2018					1170			
8/10/2018	183							
8/23/2018	145							
9/19/2018	178							
10/29/2018	157							
11/28/2018	189							
12/20/2018	150							
1/17/2019	157							
1/19/2019					1140			
2/13/2019	169							
3/20/2019	186.5 (D)							
10/16/2019	155							
10/18/2019					<1			
3/4/2020	129							
9/17/2020	165				1030			
10/27/2020			492	357	893			
3/3/2021				360				
3/4/2021	114				909			
3/5/2021			698					
9/27/2021					933			1420
9/28/2021	132	47.2	866	294		628	1670	
2/2/2022	126	45.3			889			1230
2/3/2022			903	339		767	2020	
8/24/2022				377	1240	840	1770	1800
8/25/2022	142	47	1060					
1/25/2023	145	41						
1/26/2023				370	1150	1070	1970	1490
1/27/2023			885					
8/24/2023								1440
8/25/2023	150	49.5	854	346	1200	949	1830	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	195				
8/25/2022	234				
10/12/2022		2440			
1/30/2023	280	2800			
2/1/2023			258		
8/25/2023	294	2550	298		
8/26/2023				309	275

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.002	<0.002	<0.002	<0.002	
9/1/2016	<0.002	<0.002						<0.002
9/6/2016			<0.002					
11/15/2016							<0.002	<0.002
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002		
11/17/2016			<0.002					
2/20/2017						<0.002	<0.002	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
6/12/2017				<0.002		<0.002	<0.002	<0.002
6/13/2017		<0.002	<0.002		<0.002			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2018				<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002					
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
8/29/2019			<0.002					
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/4/2020			<0.002					
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021				<0.002				<0.002
3/2/2021	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
9/21/2021	<0.002	<0.002				<0.002	<0.002	
9/22/2021			<0.002	<0.002	<0.002			<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	<0.002		<0.002			
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0002 (J)	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017			0.0002 (J)	<0.002	<0.002			
6/13/2017	<0.002	<0.002						
6/14/2017			0.0002 (J)	<0.002	<0.002			
9/27/2017	<0.002	<0.002	0.0002 (J)	<0.002	<0.002			
2/14/2018	<0.002	<0.002	0.00018 (J)	<0.002	<0.002			
3/6/2018						<0.002	<0.002	
3/15/2018								<0.002
5/1/2018						<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002							
6/27/2018		<0.002	0.00017 (J)		<0.002		<0.002	
6/28/2018				<0.002		<0.002		<0.002
7/31/2018						<0.002		
8/1/2018							<0.002	<0.002
8/23/2018						<0.002	<0.002	
9/19/2018						<0.002	<0.002	
10/29/2018						<0.002	<0.002	<0.002
11/28/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00017 (J)	<0.002				
12/19/2018					<0.002		<0.002	<0.002
12/20/2018		<0.002				<0.002		
1/16/2019								<0.002
8/27/2019	<0.002			<0.002	<0.002			
8/28/2019		<0.002	0.00017 (J)			<0.002	<0.002	
8/29/2019								<0.002
10/15/2019	<0.002							
10/16/2019			0.00017 (J)				<0.002	<0.002
12/3/2019						<0.002		
12/4/2019		<0.002		<0.002	<0.002			
3/4/2020	<0.002	<0.002	0.00016 (J)				<0.002	<0.002
3/5/2020				<0.002	<0.002	<0.002		
8/19/2020	<0.002	<0.002	0.00016 (J)	<0.002	<0.002			
8/20/2020						<0.002	<0.002	<0.002
9/15/2020	<0.002		0.00016 (J)					
9/16/2020		<0.002		<0.002	<0.002	<0.002	<0.002	
9/17/2020								<0.002
3/2/2021	<0.002					<0.002	<0.002	
3/3/2021		<0.002	0.00018 (J)	<0.002				
3/4/2021					<0.002			<0.002
9/23/2021						<0.002	<0.002	
9/27/2021								<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					<0.002
2/4/2022		<0.002						
8/23/2022	<0.002						<0.002	
8/24/2022			<0.002	<0.002				<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002	<0.002		
1/24/2023					<0.002			
1/25/2023		<0.002				<0.002		<0.002
1/26/2023	<0.002		<0.002	<0.002			<0.002	
8/31/2023				<0.002	<0.002			
9/6/2023	<0.002	<0.002	<0.002			<0.002	<0.002	
9/8/2023								<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
 Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.002						
5/1/2018		<0.002						
8/10/2018	<0.002							
8/23/2018	<0.002							
9/19/2018	<0.002							
10/29/2018	<0.002							
11/28/2018	<0.002							
12/20/2018	<0.002							
1/17/2019	<0.002							
1/19/2019					<0.002			
2/13/2019	<0.002							
8/29/2019	<0.002							
10/16/2019	<0.002							
10/18/2019					<0.002			
3/4/2020	<0.002							
8/20/2020	<0.002				<0.002			
9/17/2020	<0.002				<0.002			
3/3/2021				<0.002				
3/4/2021	<0.002				<0.002			
3/5/2021			<0.002					
9/27/2021					<0.002			<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	
2/2/2022	<0.002	<0.002			<0.002			<0.002
2/3/2022			<0.002	<0.002		<0.002	<0.002	
8/24/2022				<0.002	<0.002	<0.002	<0.002	<0.002
8/25/2022	<0.002	<0.002	<0.002					
1/25/2023	<0.002	<0.002						
1/26/2023				<0.002	<0.002	<0.002	<0.002	<0.002
1/27/2023			<0.002					
8/31/2023								<0.002
9/6/2023	<0.002			<0.002				
9/8/2023		<0.002	<0.002		<0.002	<0.002	<0.002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.002				
8/25/2022	<0.002				
10/12/2022		<0.002			
1/30/2023	<0.002	<0.002			
2/1/2023			<0.002		
9/6/2023				<0.002	<0.002
9/8/2023	<0.002	<0.002	<0.002		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				151	88	138	154	
9/1/2016	142	69						299 (o)
9/6/2016			146					
11/15/2016							123	41
11/16/2016	100	100		69	41	77		
11/17/2016			211					
2/20/2017						170	158	133
2/21/2017	71	37	151	68	<25			
6/12/2017				161		132	142	61
6/13/2017		84	130		53			
6/14/2017	140							
9/26/2017	149	68	160	167	45	108	138	29
2/13/2018				165	63	141	150	61
2/14/2018	137	138	194					
6/26/2018	142	90	221	188	71	133	154	71
7/31/2018	133	83						
12/18/2018	135	85	208	145 (X)	78 (X)	138 (X)	147	70 (X)
3/19/2019	132 (JX)	82 (JX)	161 (JX)	146.5 (D)	68	130	146	72
10/15/2019	134	89	124	140	66	175	144	63
3/3/2020	115	72		155	41	<10	130	54
3/4/2020			118					
9/15/2020	95	60	109	116	69	100	116	79
3/1/2021				98				39
3/2/2021	93	43	105		43	80	96	
9/21/2021	117	56				108	104	
9/22/2021			128	129	66			62
2/1/2022	114	63	130	126	72	129	124	61
8/23/2022	104	55	103	117	45	107	101	52
1/24/2023	114	59	102	93	63	124	104	64
8/25/2023			70		36		73	
8/28/2023				81		80		30

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				505				
9/8/2016	460	478	654		607			
11/17/2016	611							
11/18/2016		503						
11/21/2016			819	515	695			
2/21/2017	497	380						
2/22/2017			721	504	635			
6/13/2017	474	354						
6/14/2017			661	536	635			
9/27/2017	457	376	518	432	601			
2/14/2018	431	503 (JX)	487	448	628			
3/6/2018						346	2200	
3/15/2018								2440
5/1/2018						374	2080 (D)	2190
6/26/2018	414							
6/27/2018		458 (X)	648 (X)		2280		31 (OX)	
6/28/2018				494		333		2290
7/31/2018						393		
8/1/2018							2190	2360
8/23/2018						350	2160	
9/19/2018						353	2160	
10/29/2018						329	2130	2300
11/28/2018						358	2320	2300
12/18/2018	401		407	715				
12/19/2018					605		2060	2190
12/20/2018		344				322		
1/16/2019								2270
3/19/2019		334 (JX)					2050 (JX)	
3/20/2019	410.5 (D)		391	885	564	302		2280
10/15/2019	380							
10/16/2019			2030				2220	2280
12/3/2019						362		
12/4/2019		422		612	526			
3/4/2020	330	326	391				2140	2270
3/5/2020				681	489	297		
9/15/2020	272		281					
9/16/2020		301		634	428	275	2090	
9/17/2020								1910
3/2/2021	280					264	1680	
3/3/2021		288	515	690				
3/4/2021					350			1520
9/23/2021						277	1770	
9/27/2021								1800
9/28/2021	270	262	457	1050	375			
2/2/2022	283			1110	443	276	1850	
2/3/2022			419					1850
2/4/2022		301						
8/23/2022	315						2060	
8/24/2022			383	1540				1990
8/25/2022		311			437	248		
1/24/2023					425			
1/25/2023		260				251		2040

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	339		419	1680			2010	
8/25/2023				1920	412			
8/30/2023	354	309	418			242	1970	2180

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		191						
5/1/2018		189						
8/3/2018					1900			
8/10/2018	344							
8/23/2018	333							
9/19/2018	364							
10/29/2018	334							
11/28/2018	357							
12/20/2018	355							
1/17/2019	347							
1/19/2019					1660			
2/13/2019	350							
3/20/2019	360 (D)							
10/16/2019	346							
10/18/2019					1550			
3/4/2020	351							
9/17/2020	329				1600			
10/27/2020			914	680	1200			
3/3/2021				598				
3/4/2021	383				830			
3/5/2021			1210					
9/27/2021					1560			2100
9/28/2021	336	181	1470	650		1120	2600	
2/2/2022	160	181			1590			1970
2/3/2022			1380	686		1170	2480	
8/24/2022				715	1740	1380	2830	2400
8/25/2022	296	167	1750					
1/25/2023	276	156						
1/26/2023				693	1750	1440	2880	2280
1/27/2023			1400					
8/25/2023								2220
8/29/2023					1860	1570	2880	
8/30/2023	281	184	1360	638				

Time Series

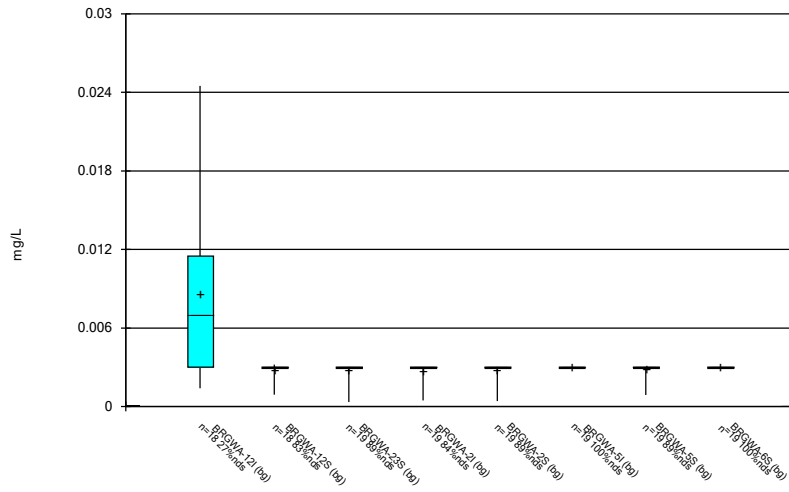
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	403				
8/25/2022	419				
10/12/2022		3780			
1/30/2023	448	4260			
2/1/2023			525		
8/29/2023	503	4640			
8/30/2023			597	506	430

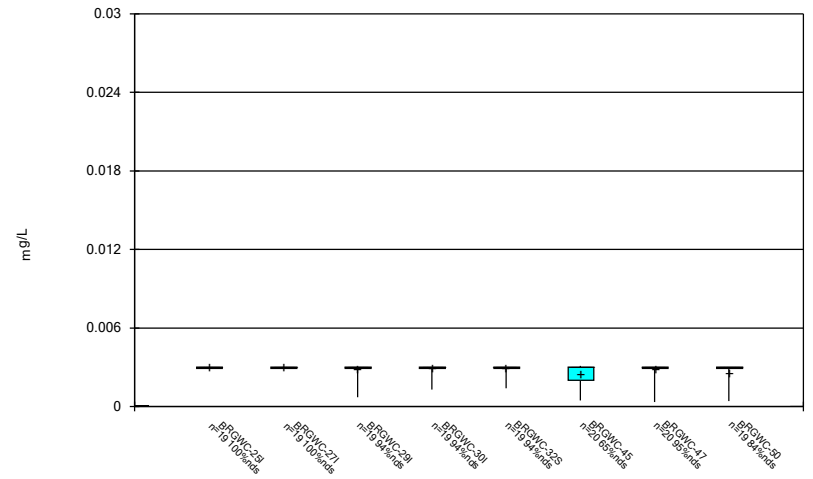
FIGURE B.

Box & Whiskers Plot



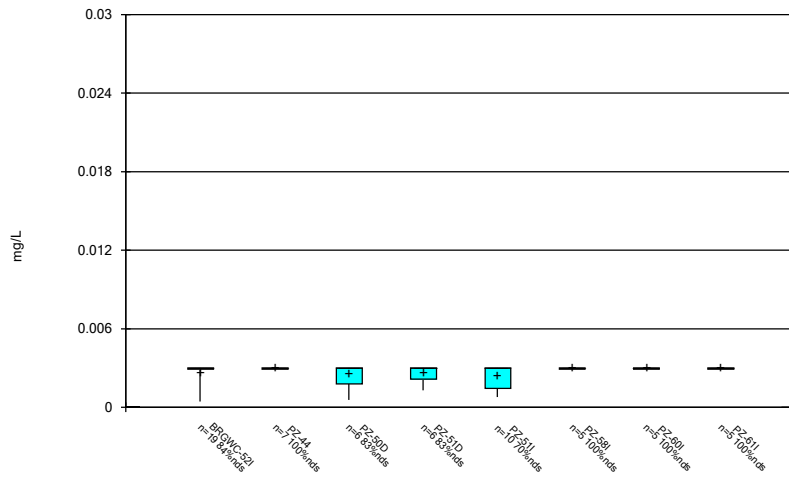
Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



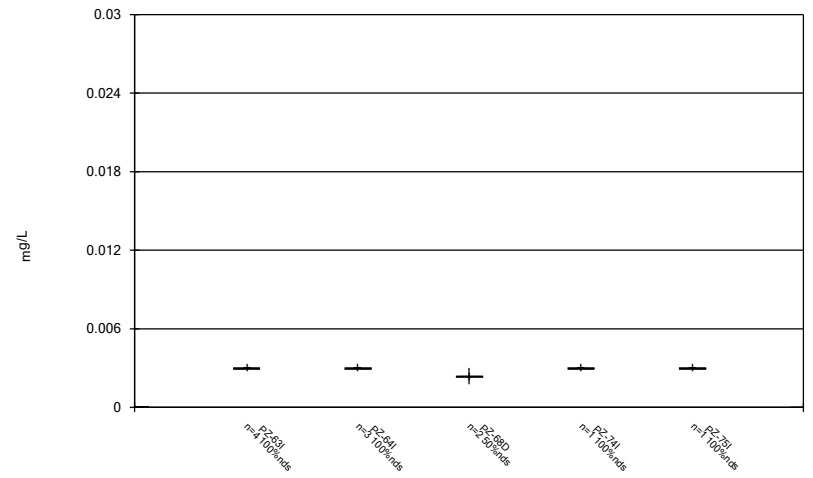
Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



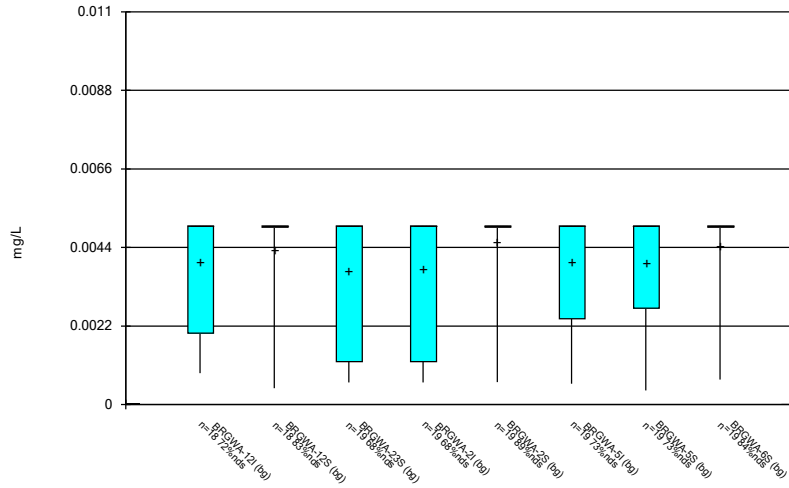
Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



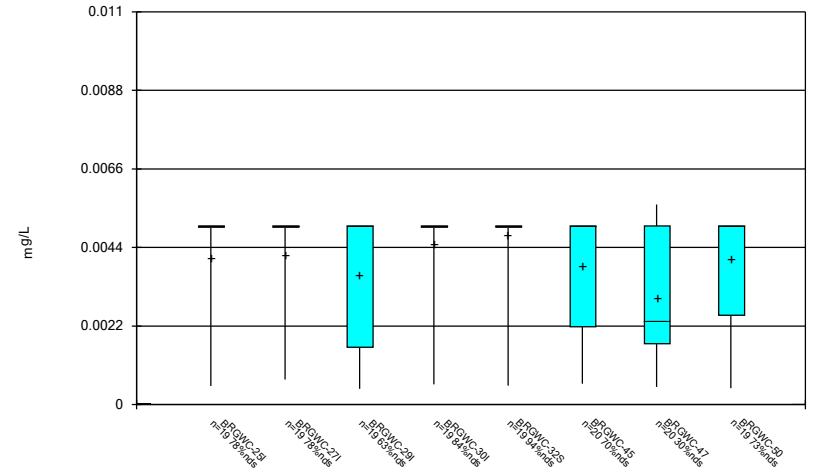
Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



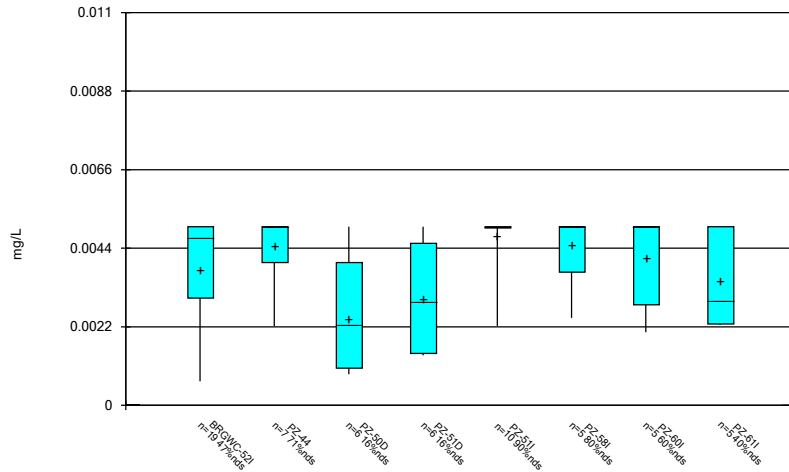
Constituent: Arsenic Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



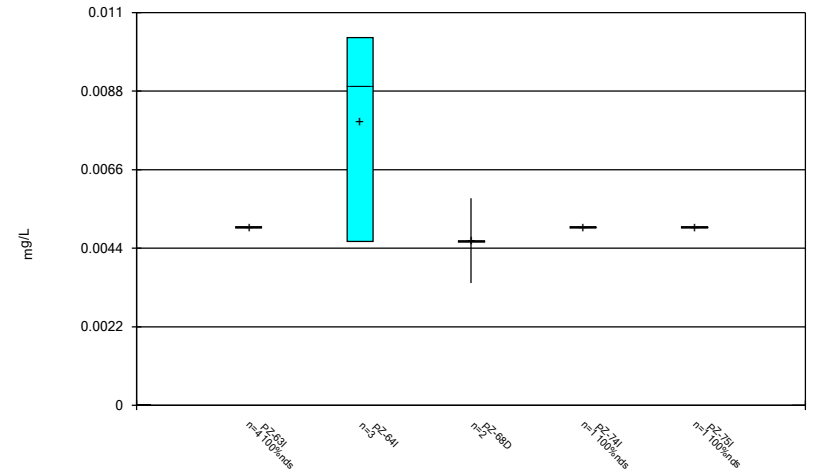
Constituent: Arsenic Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



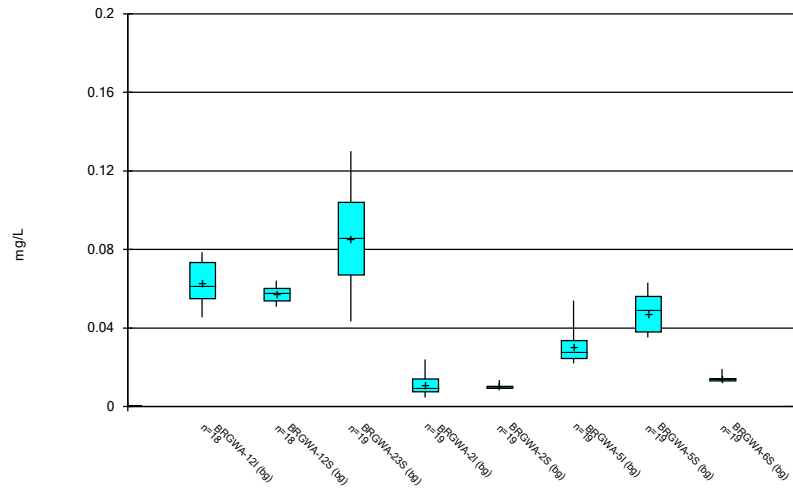
Constituent: Arsenic Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



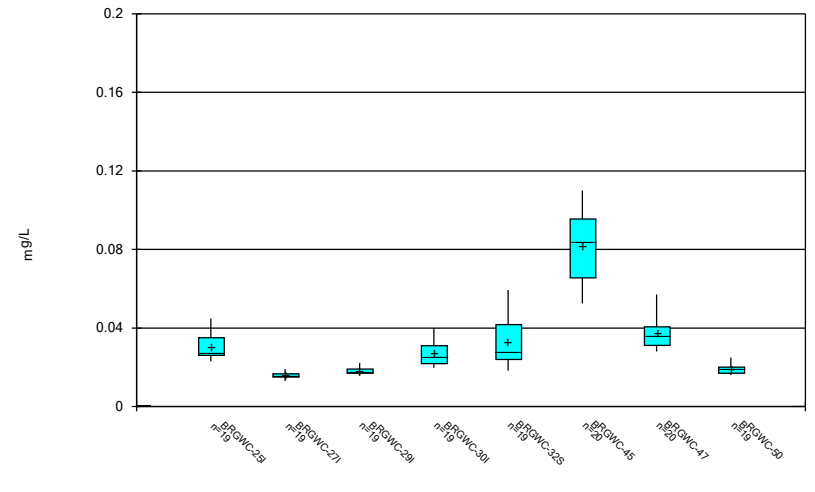
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



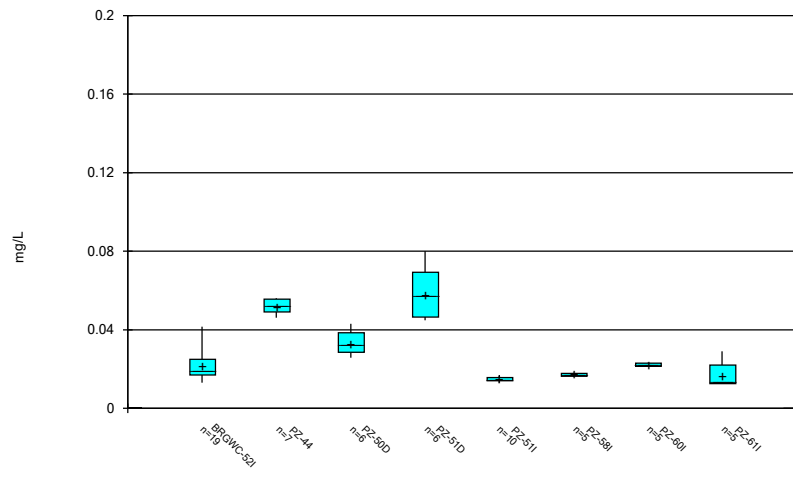
Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



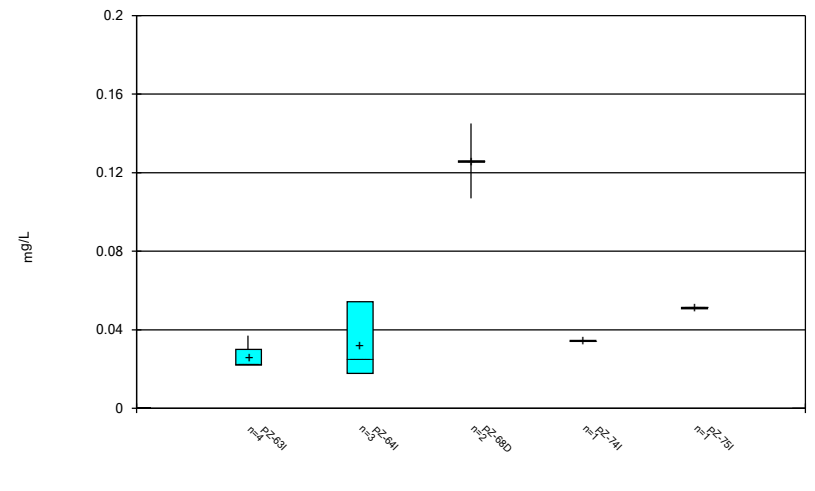
Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



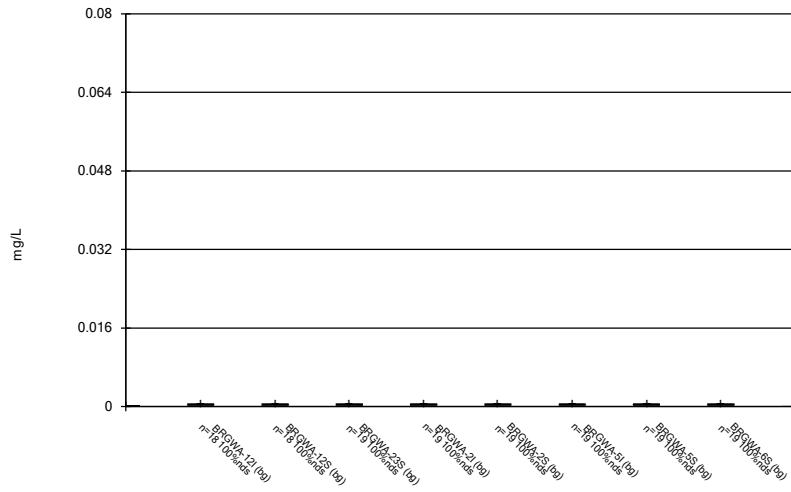
Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



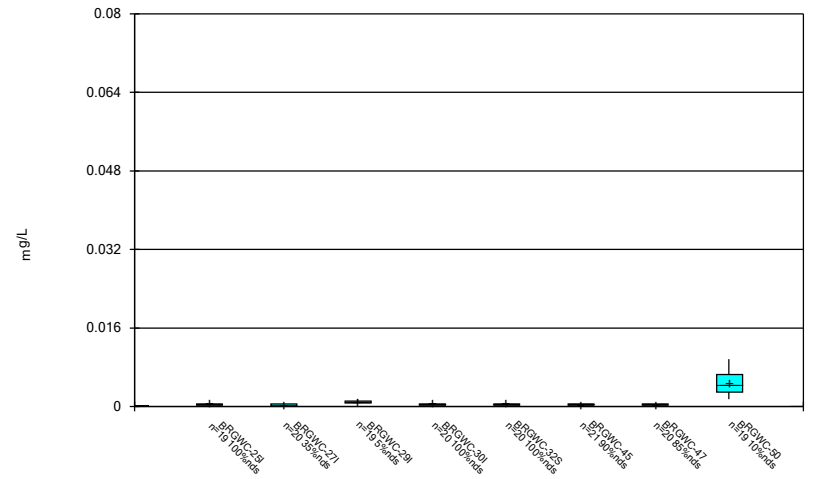
Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



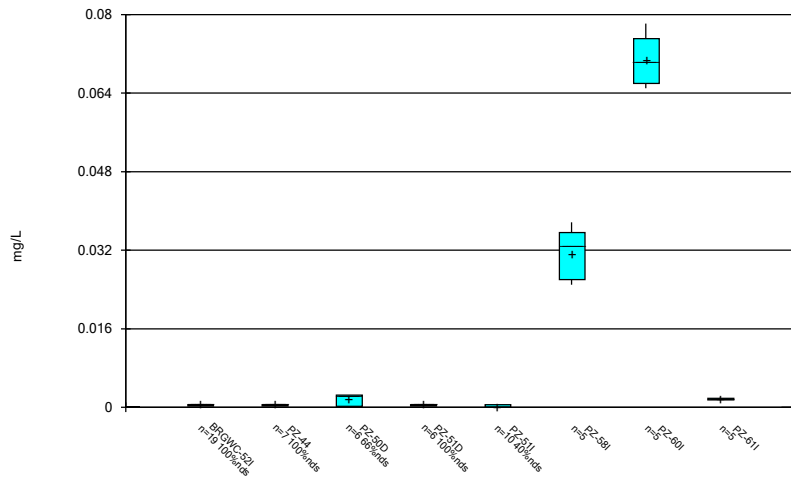
Constituent: Beryllium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



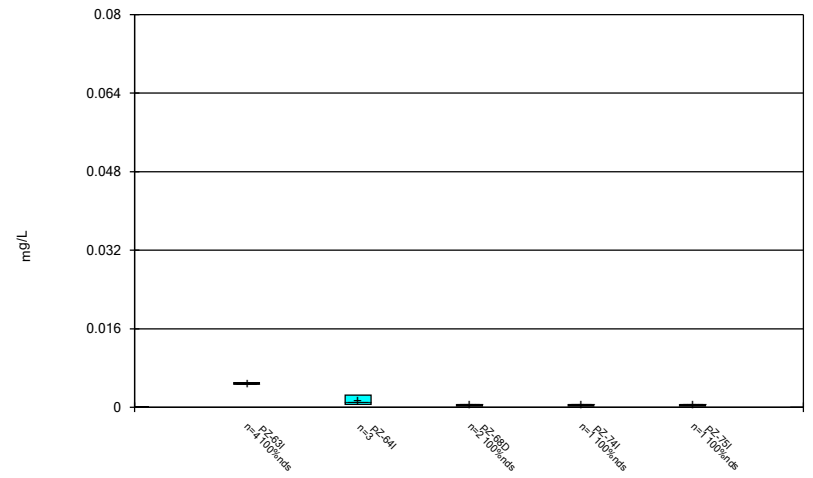
Constituent: Beryllium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



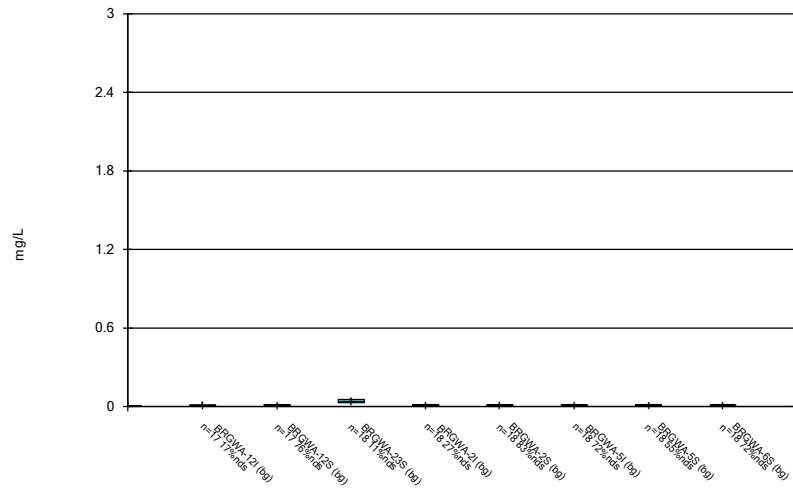
Constituent: Beryllium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



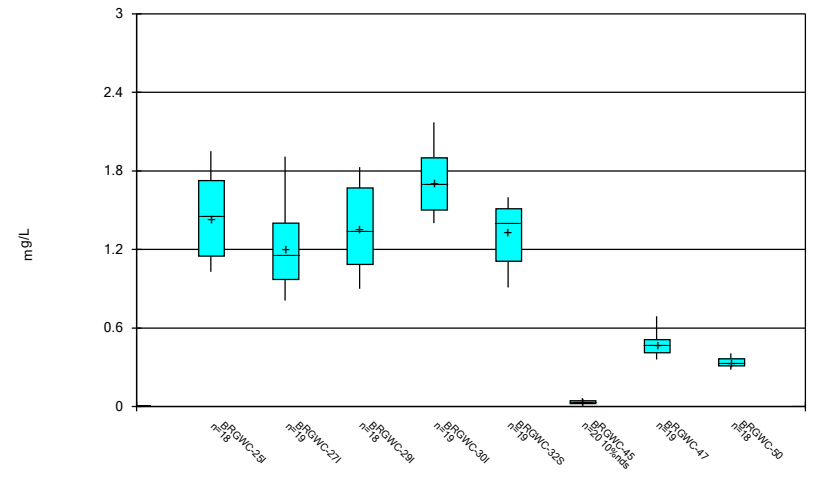
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



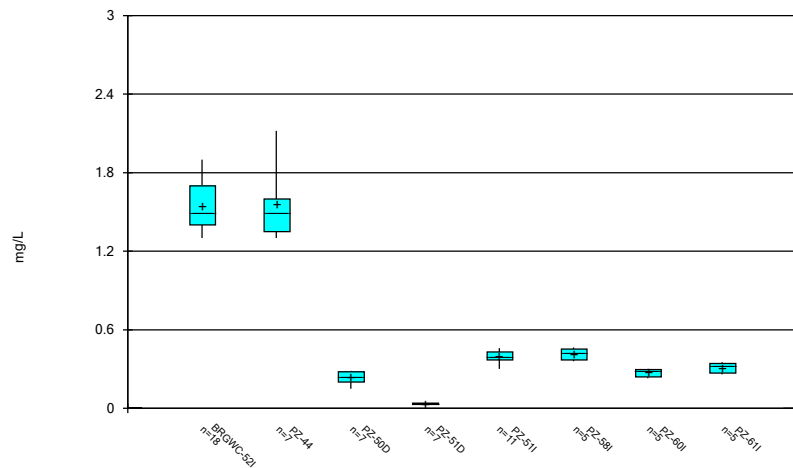
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Box & Whiskers Plot



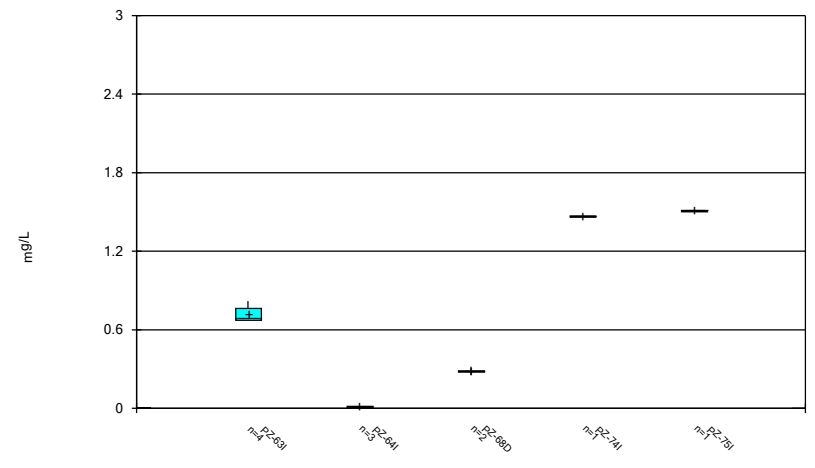
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Box & Whiskers Plot



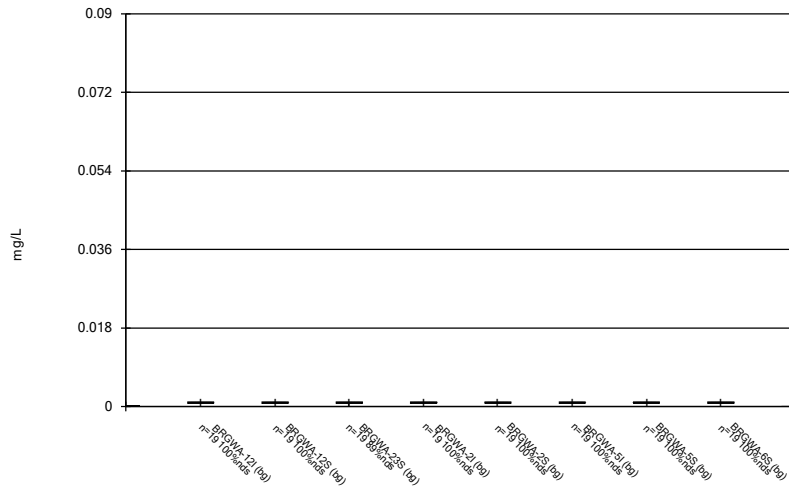
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Box & Whiskers Plot



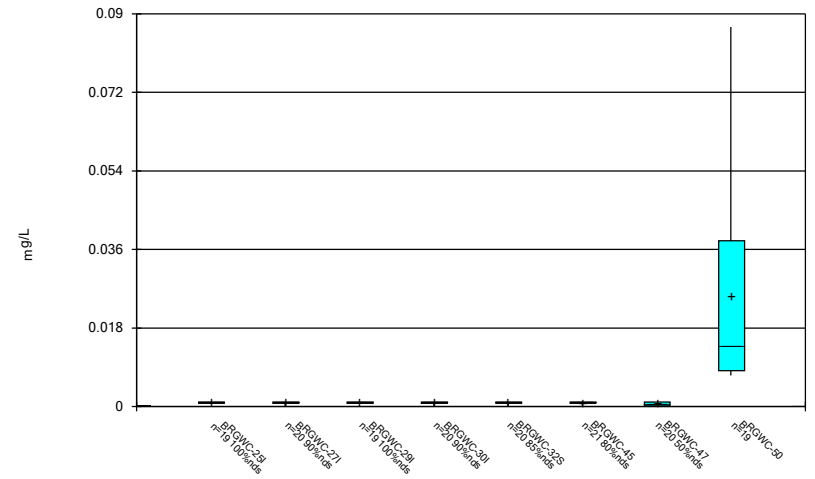
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Box & Whiskers Plot



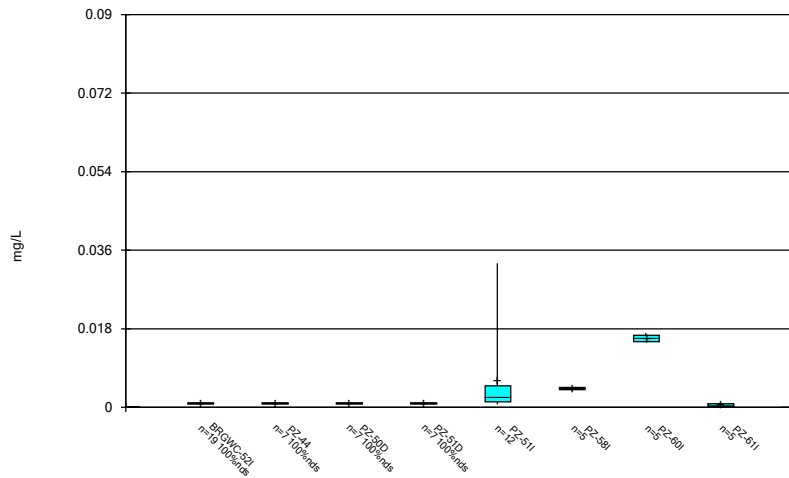
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



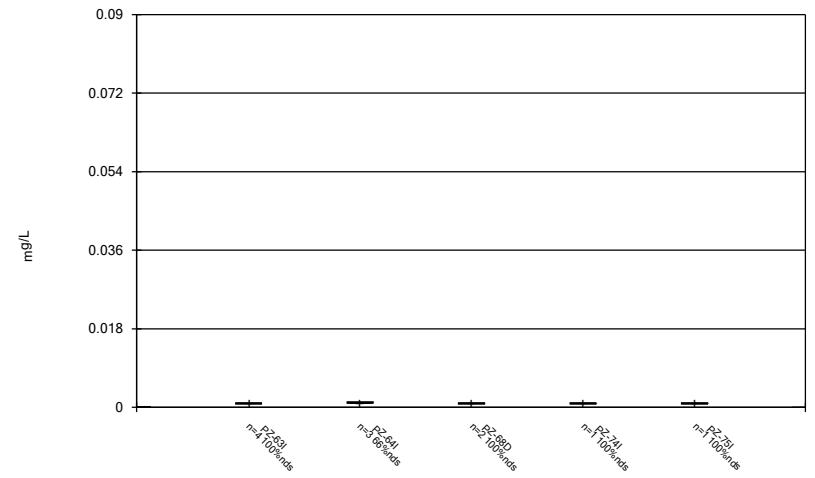
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Box & Whiskers Plot



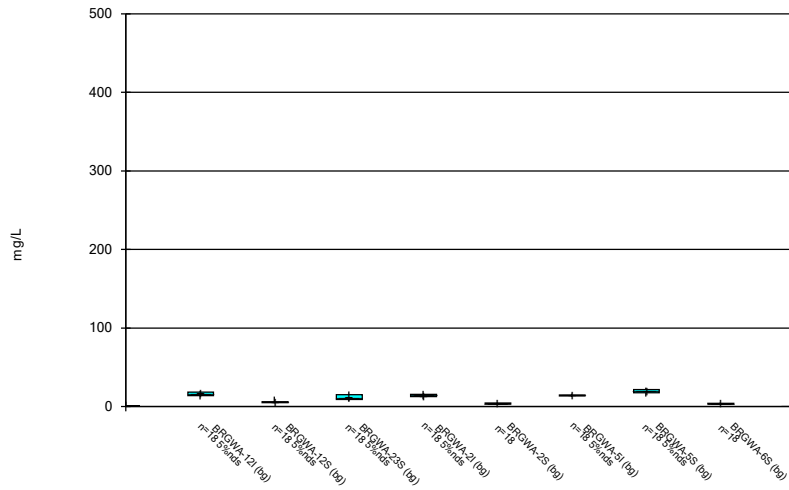
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



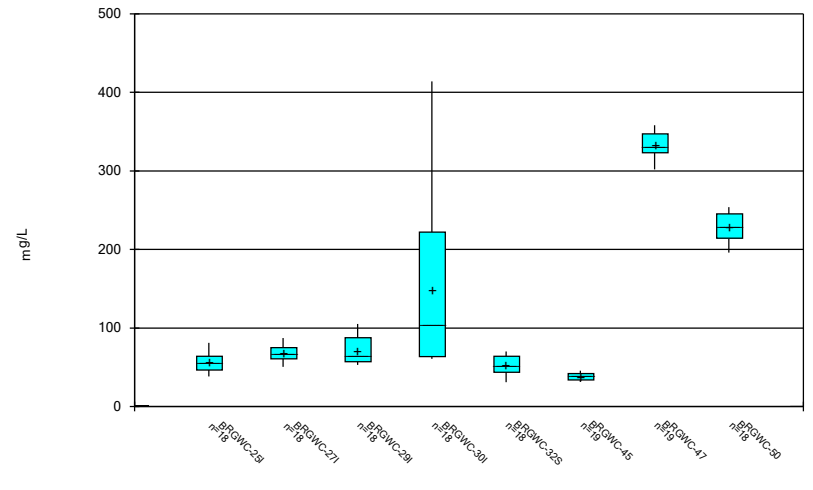
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



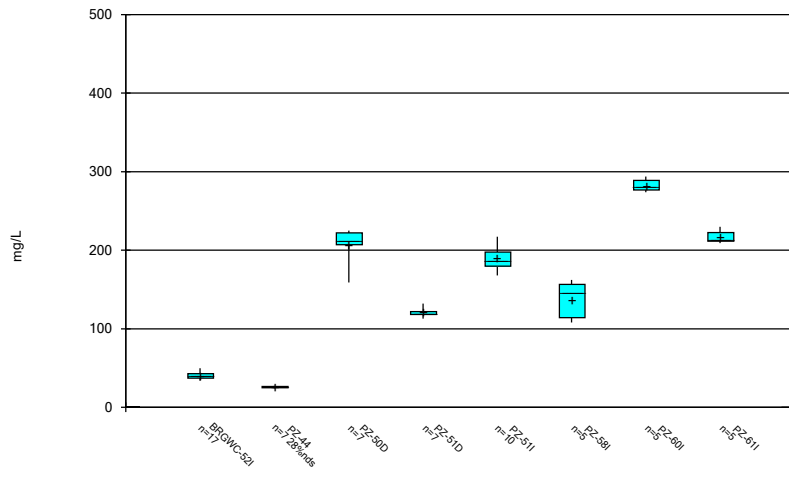
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



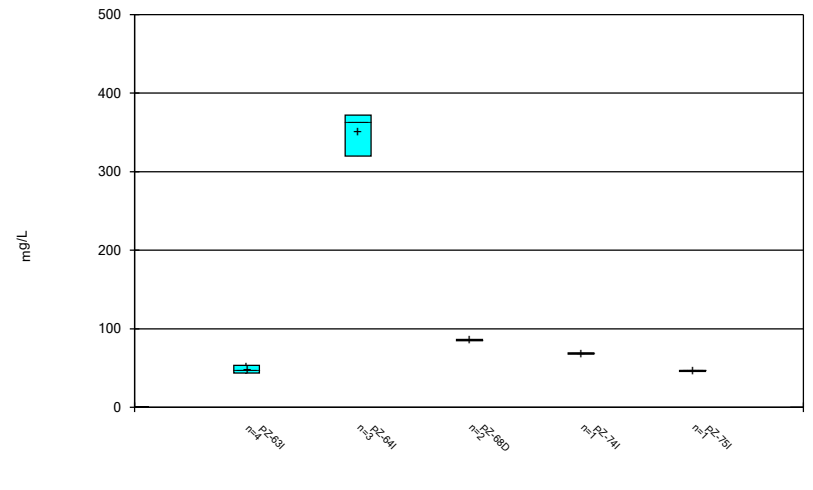
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



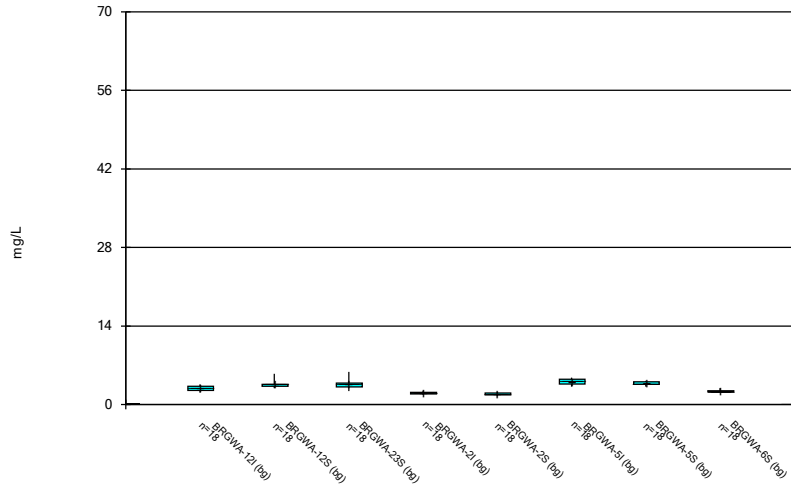
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



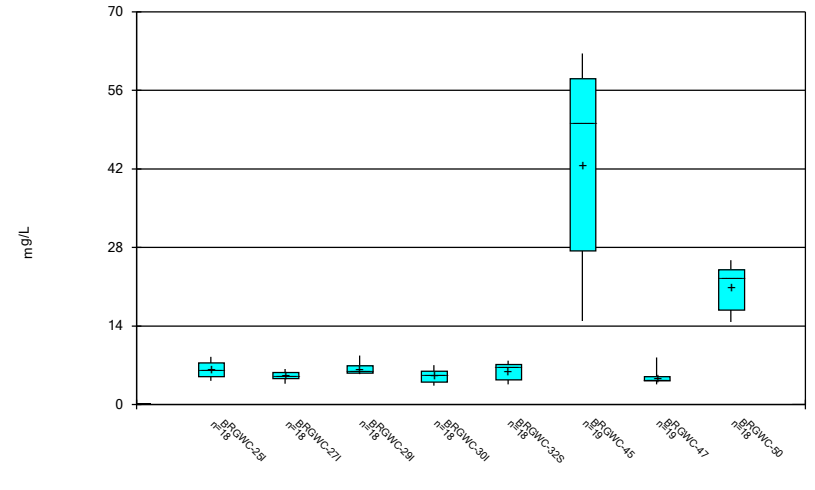
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



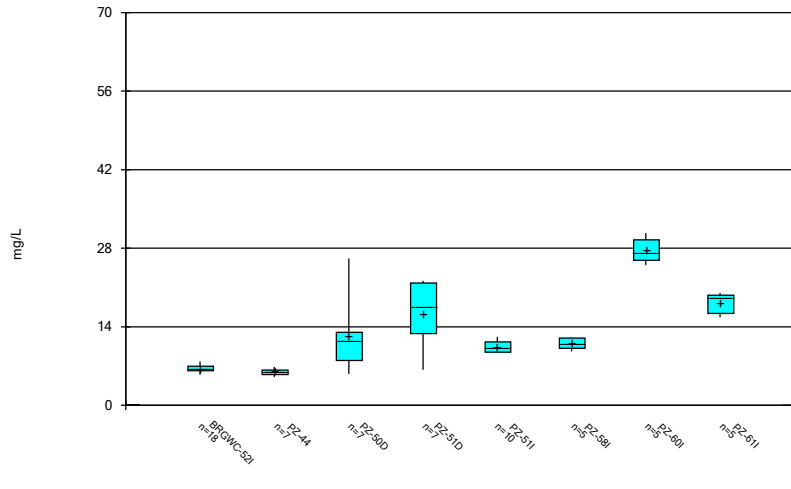
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



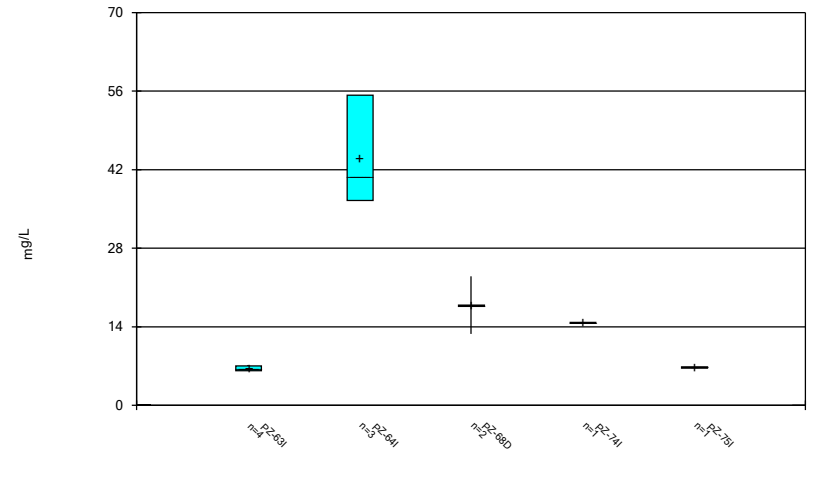
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Box & Whiskers Plot



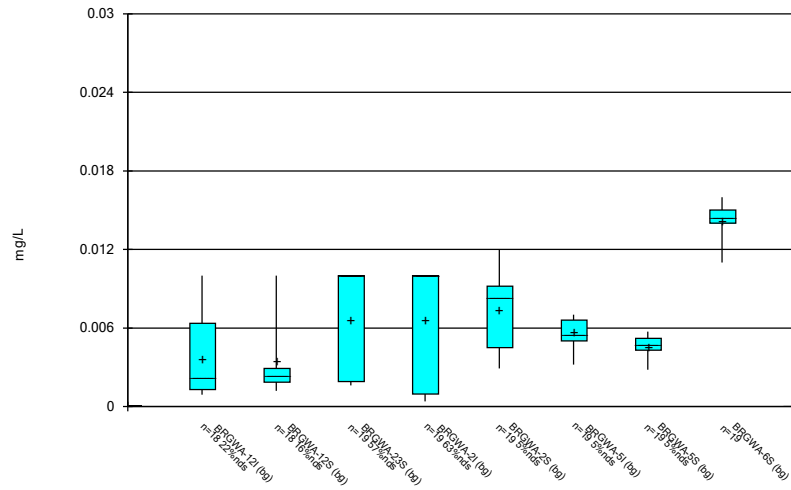
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



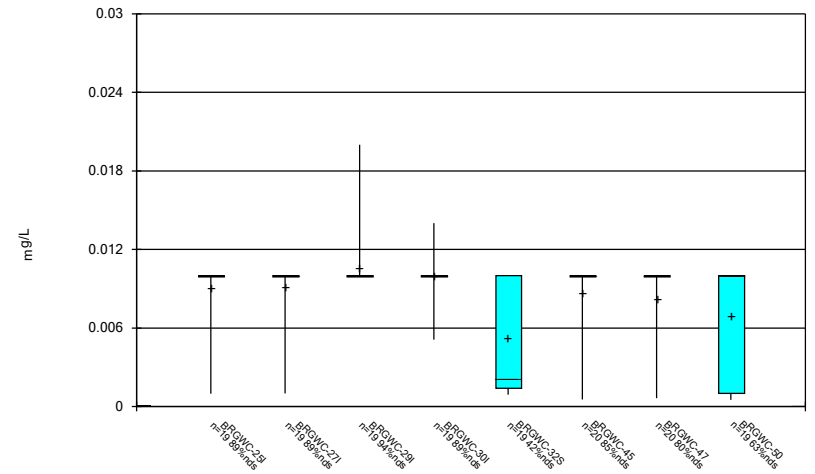
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



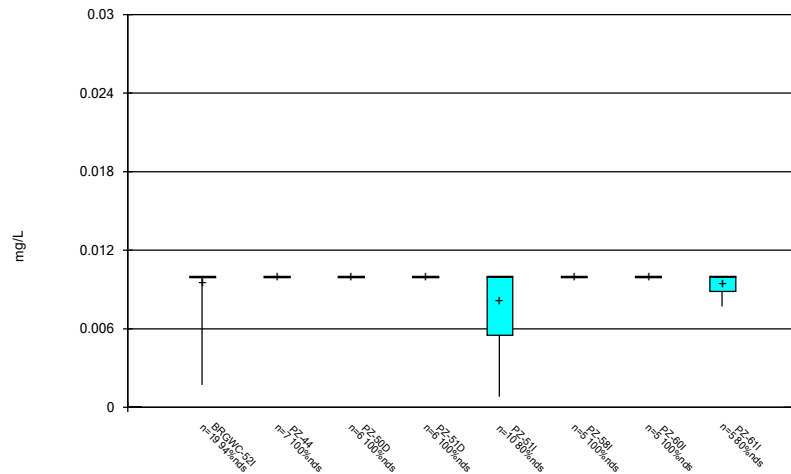
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



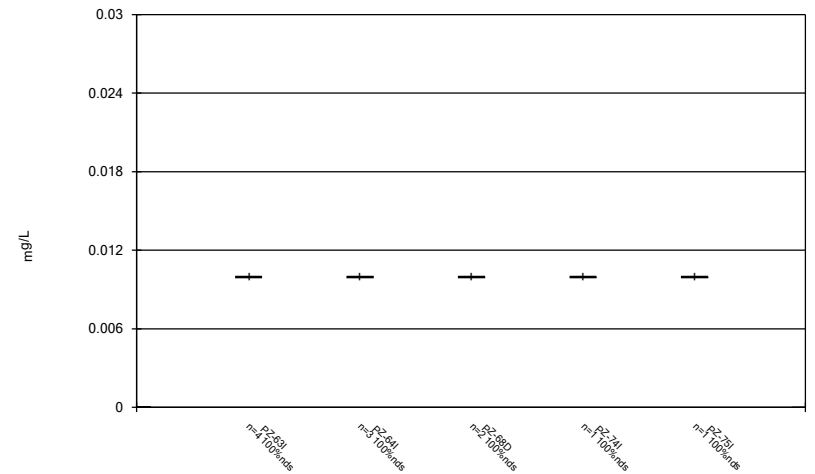
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



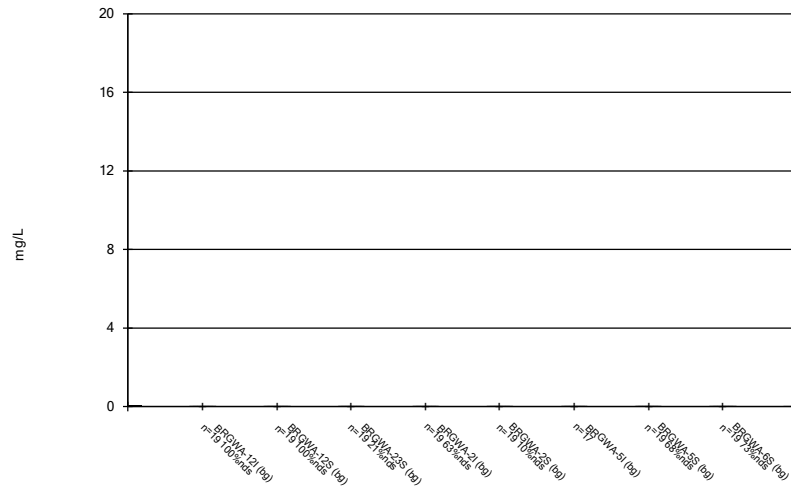
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



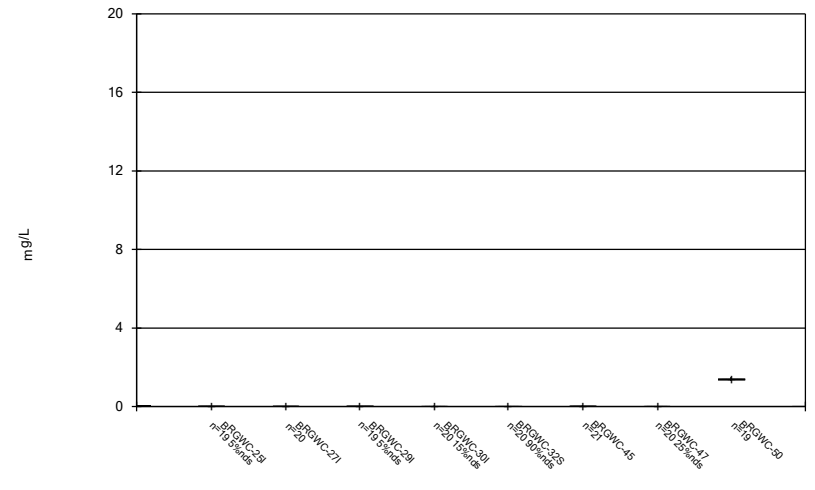
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



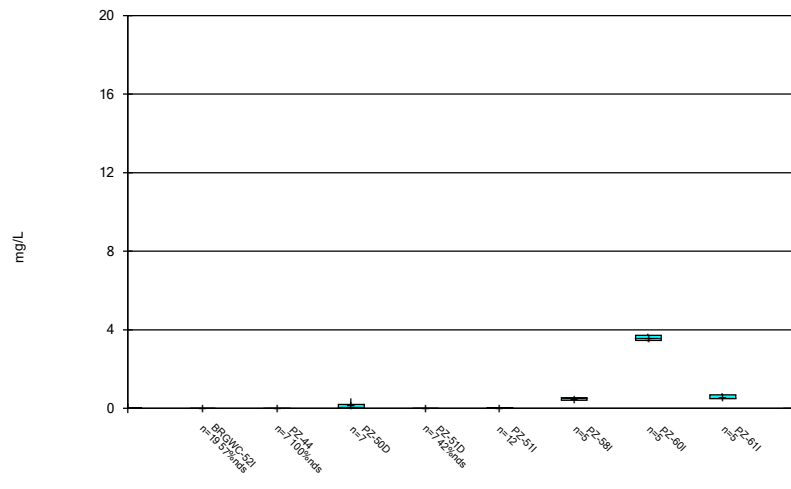
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



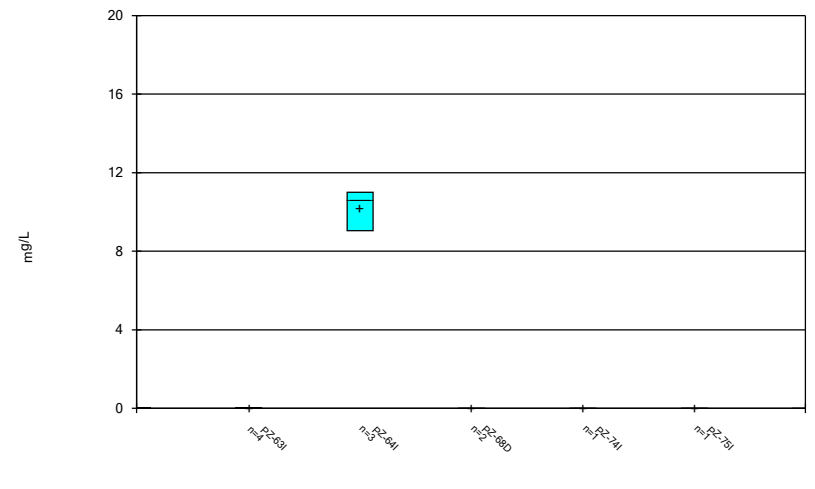
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



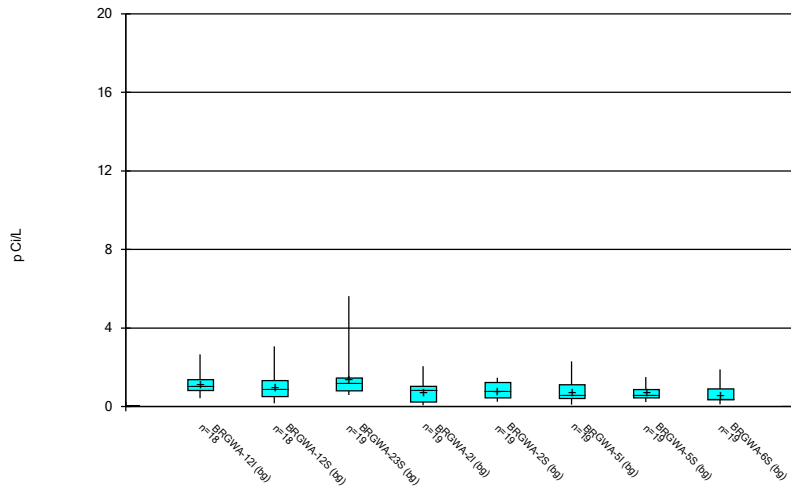
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



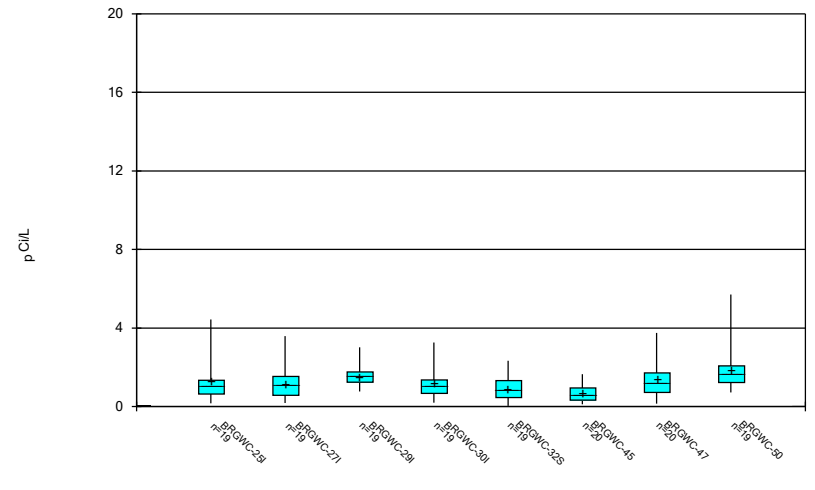
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



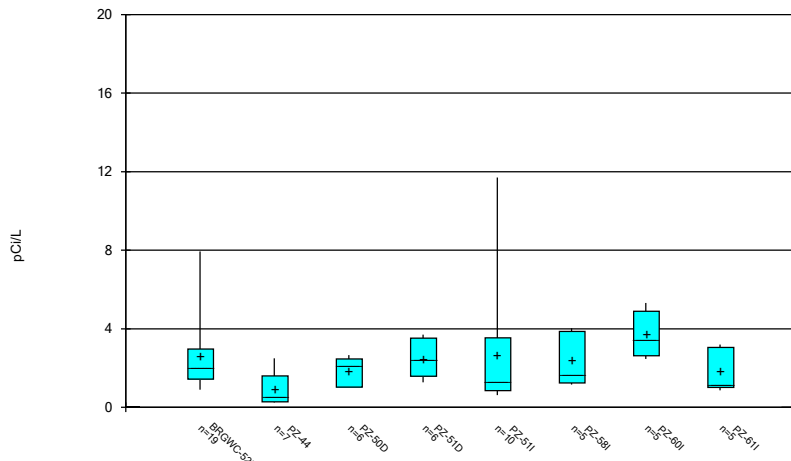
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:04 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



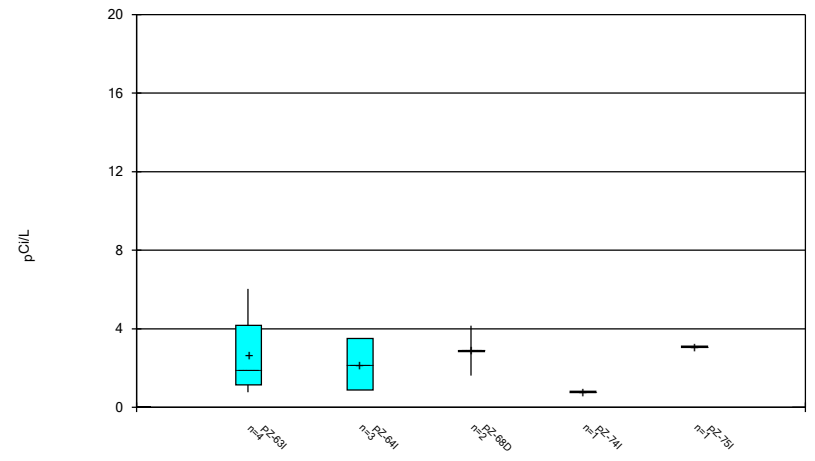
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Box & Whiskers Plot



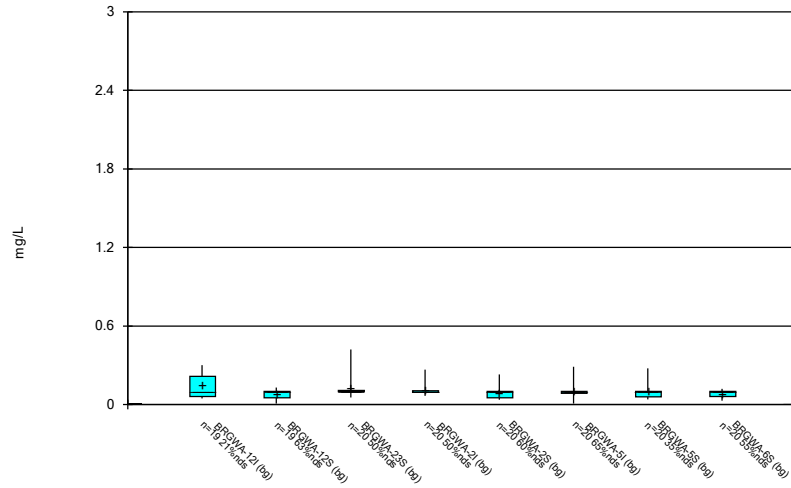
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Box & Whiskers Plot



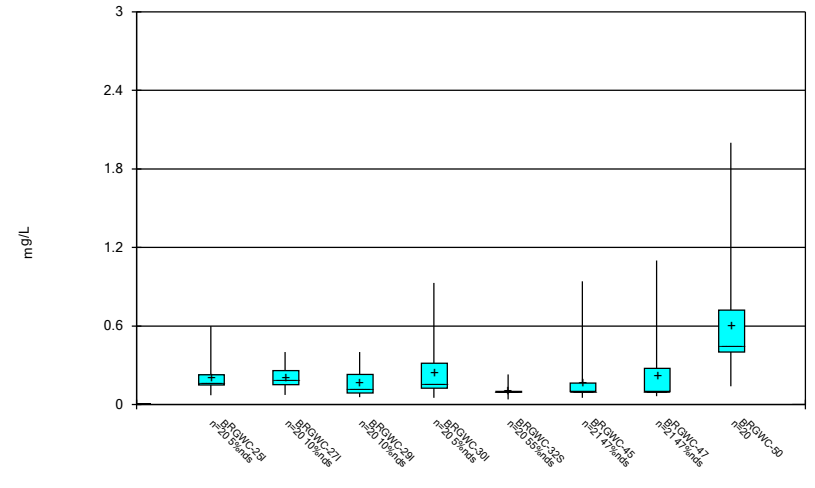
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Box & Whiskers Plot



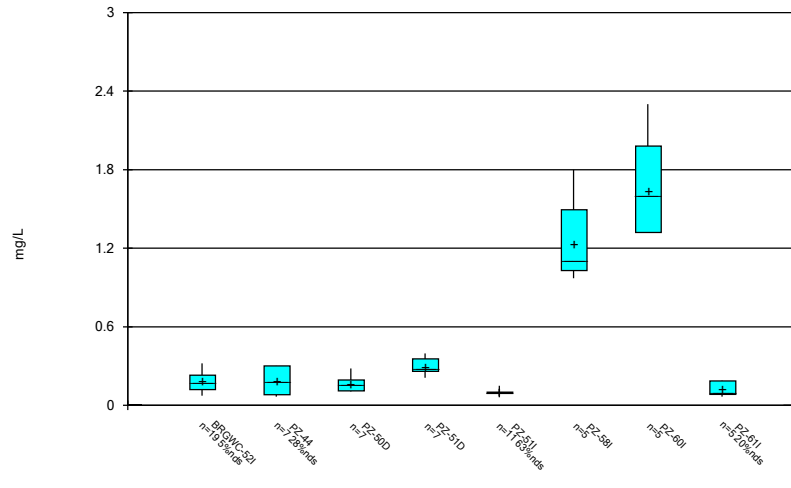
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



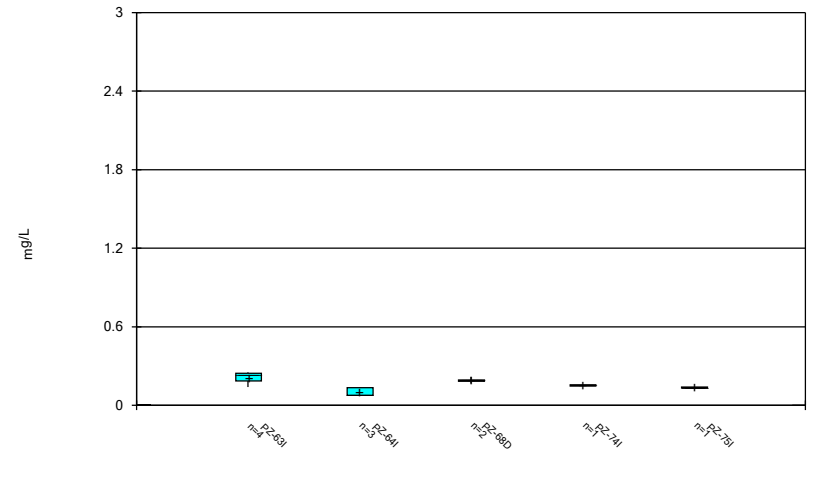
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Box & Whiskers Plot



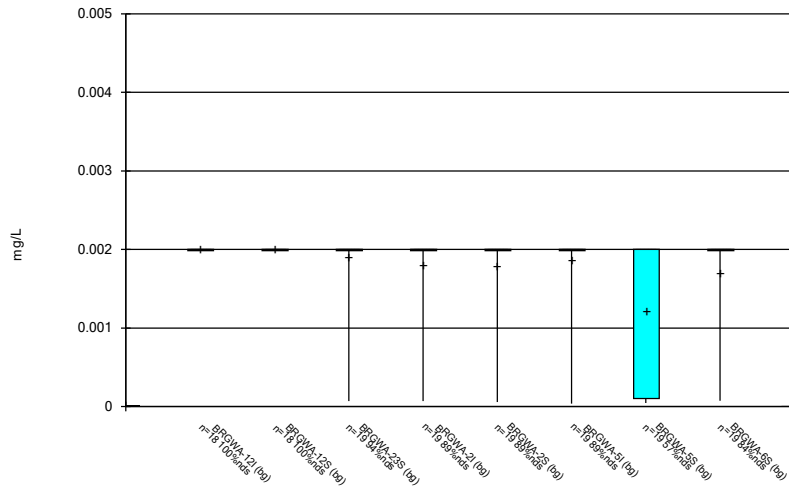
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Box & Whiskers Plot



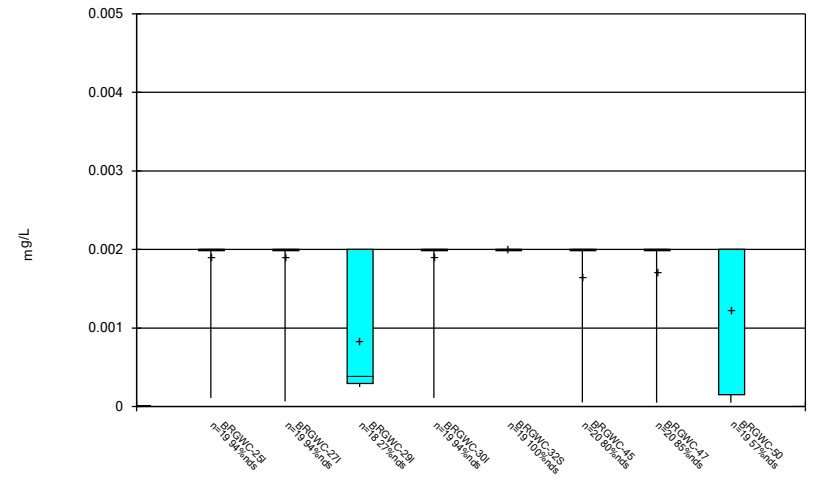
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



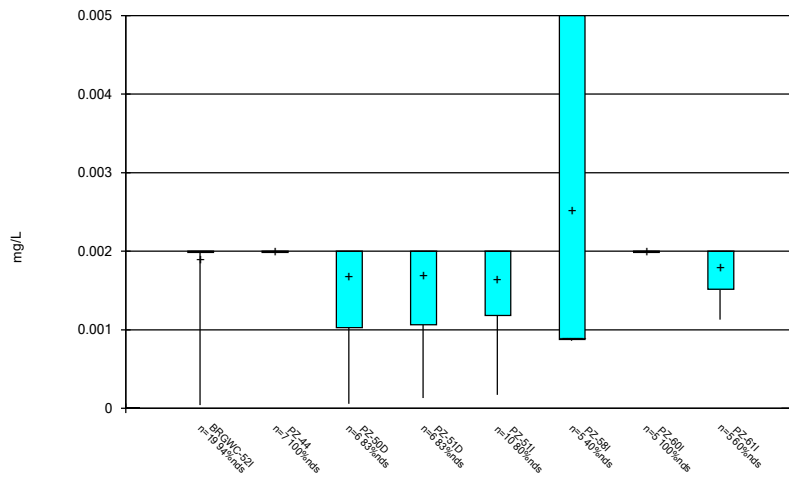
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Box & Whiskers Plot



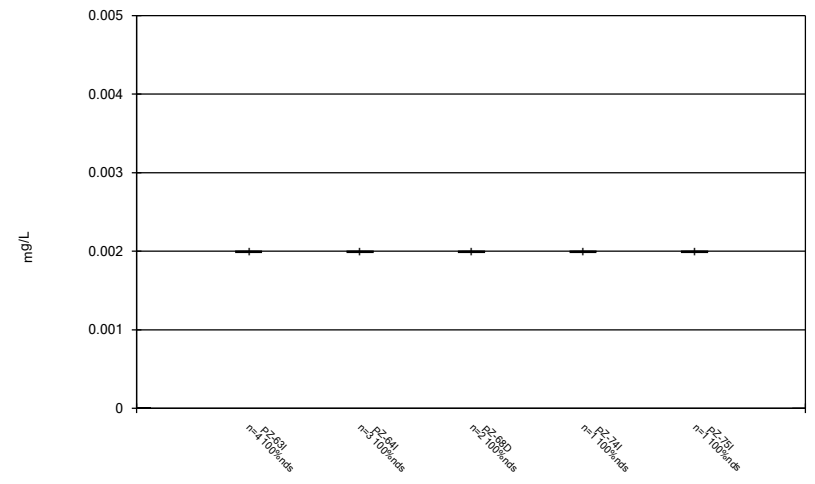
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



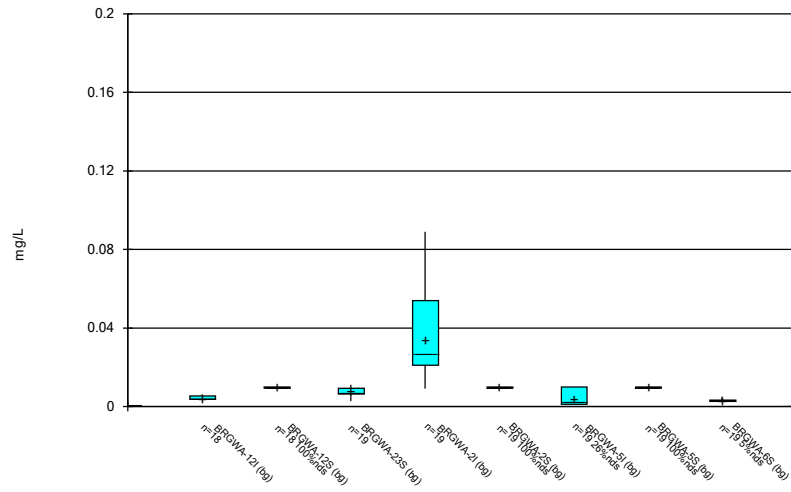
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Box & Whiskers Plot



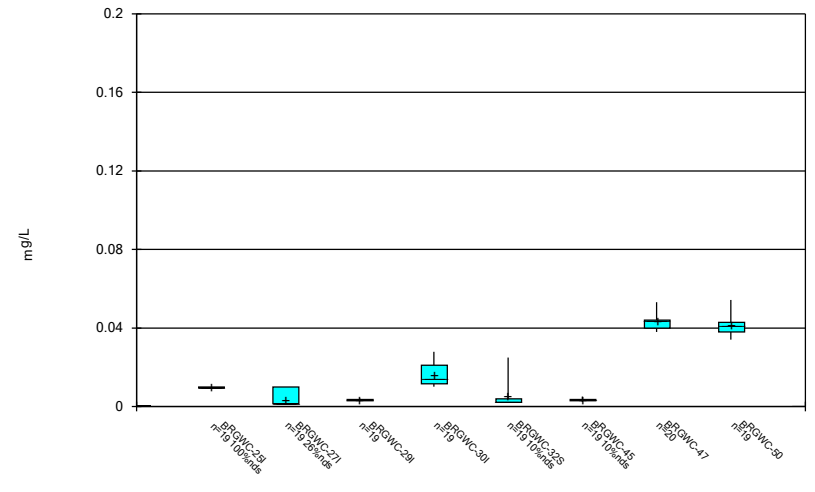
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



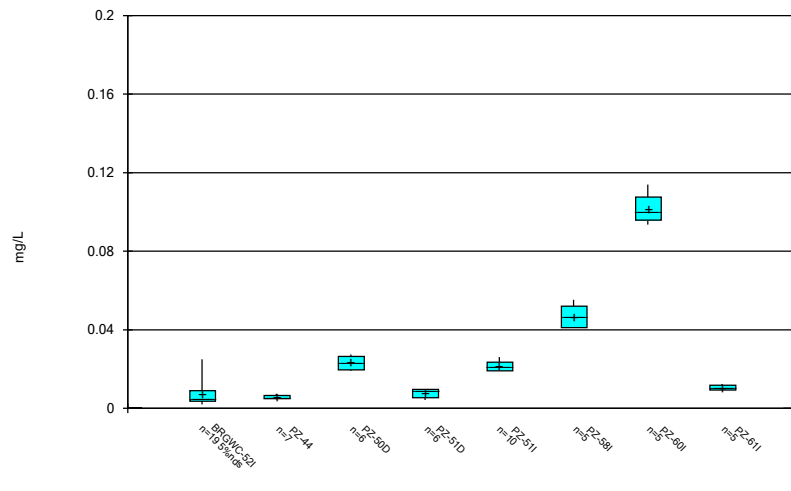
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



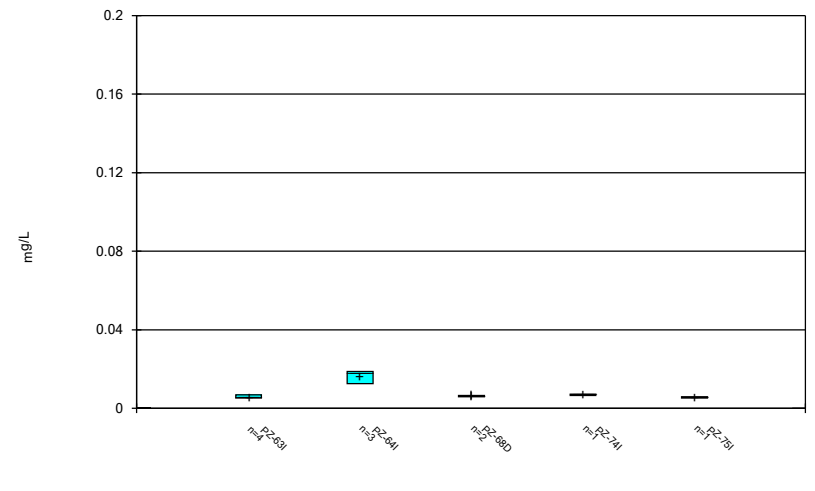
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



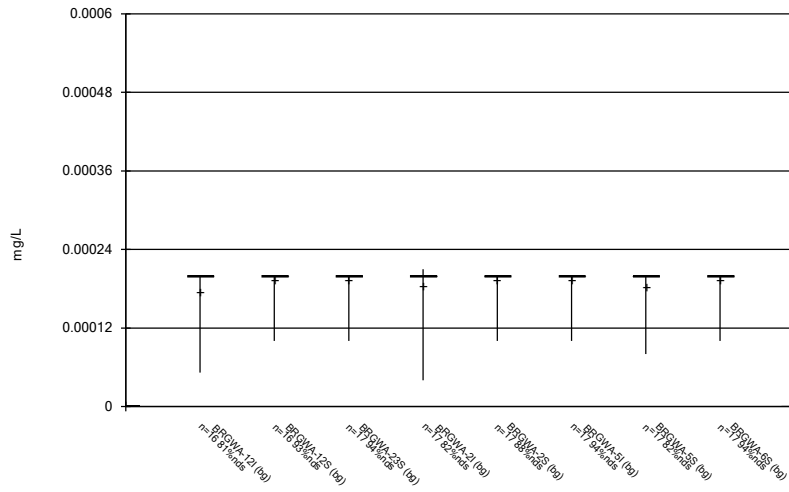
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



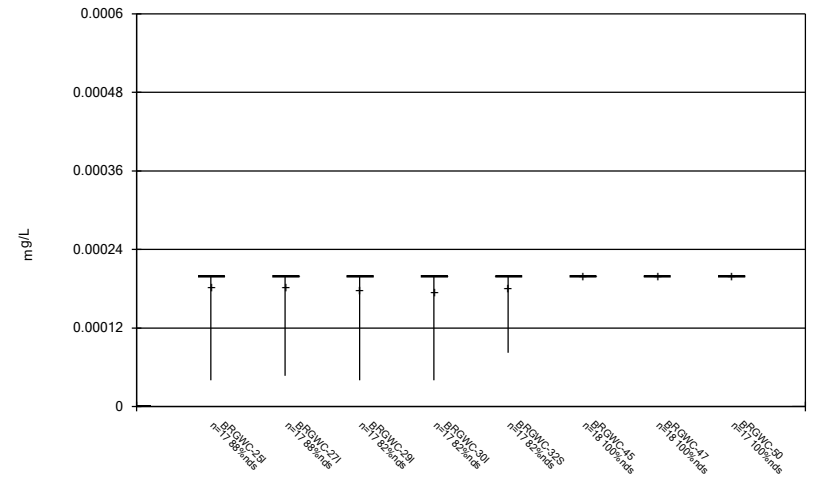
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



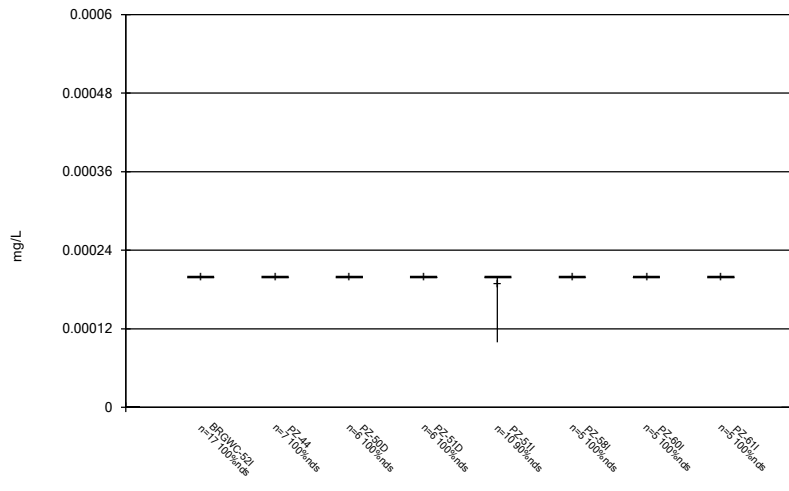
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



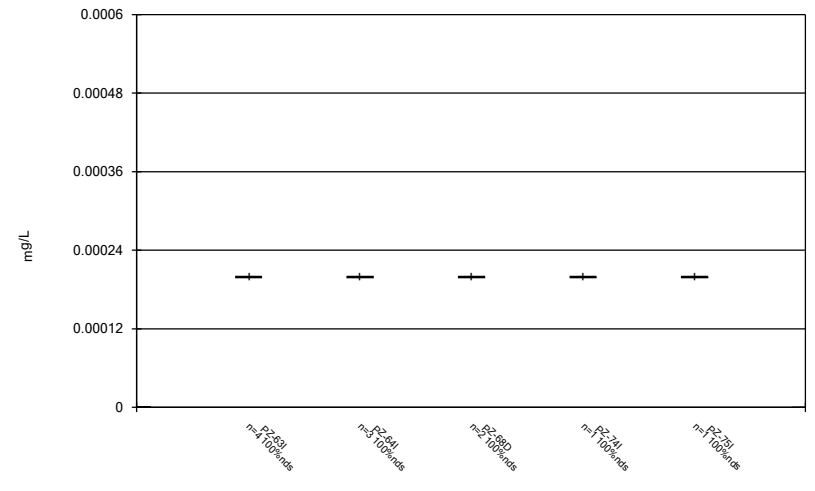
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



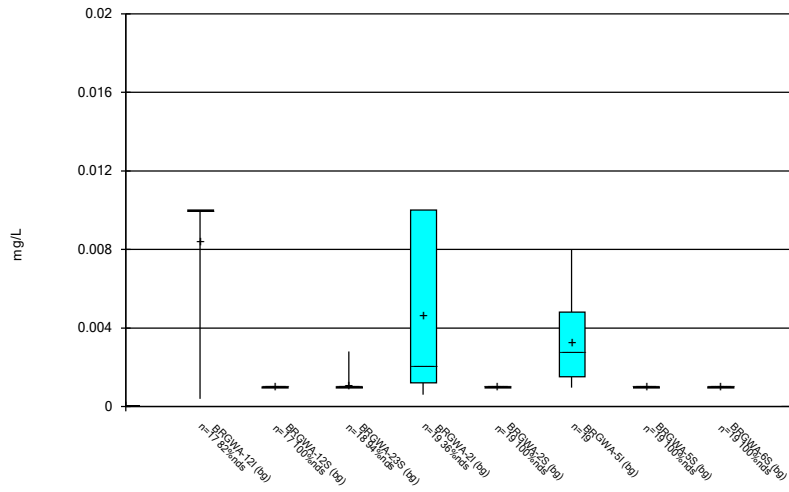
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



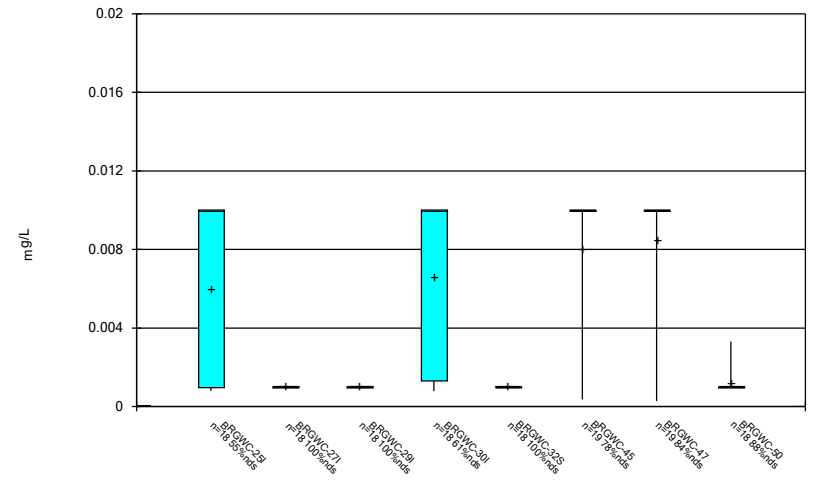
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



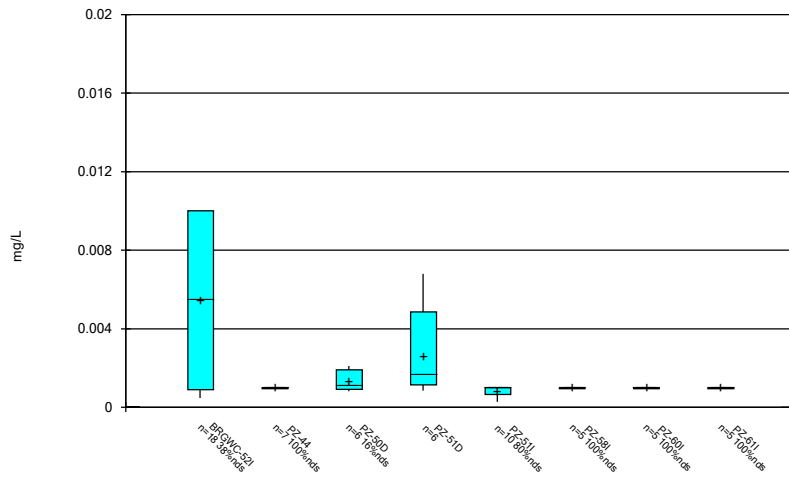
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Box & Whiskers Plot



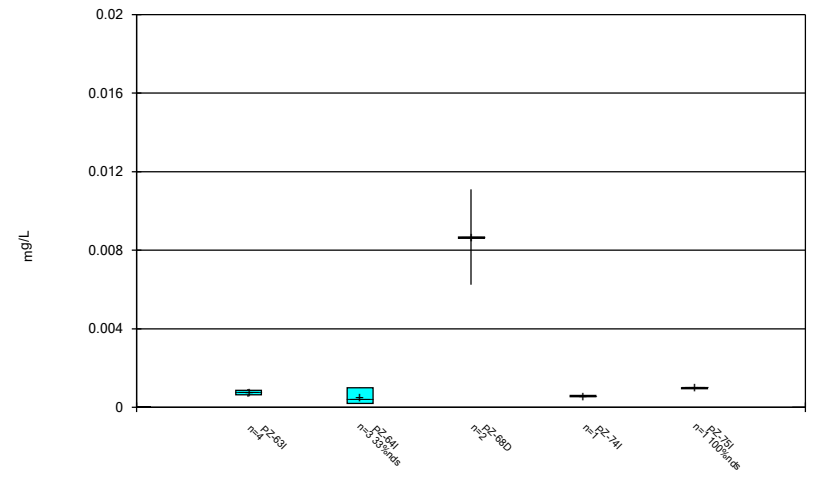
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



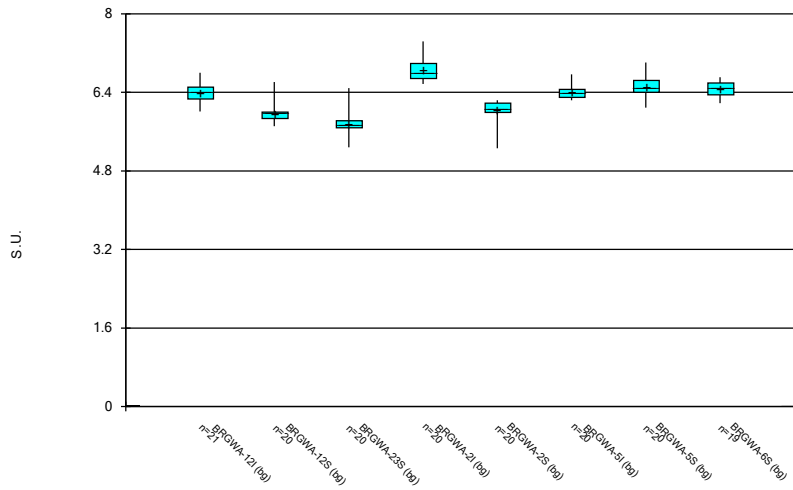
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



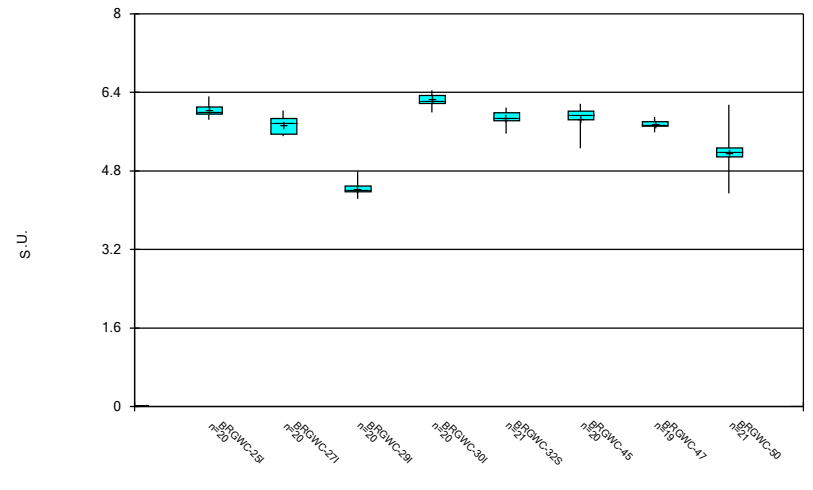
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



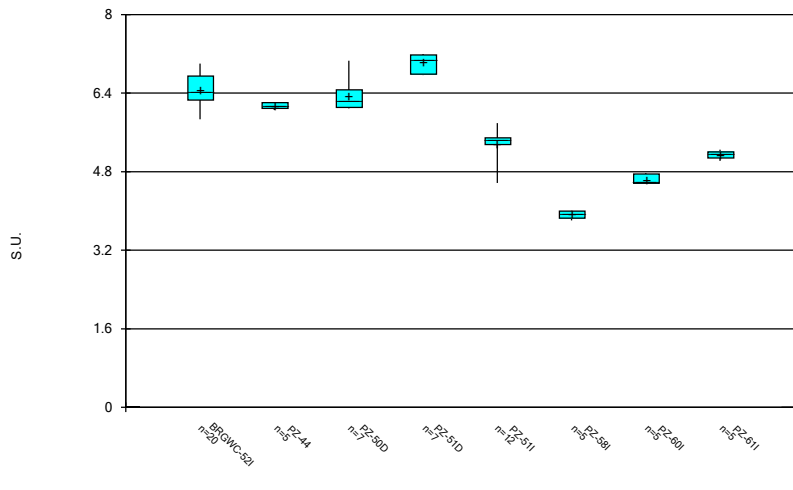
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



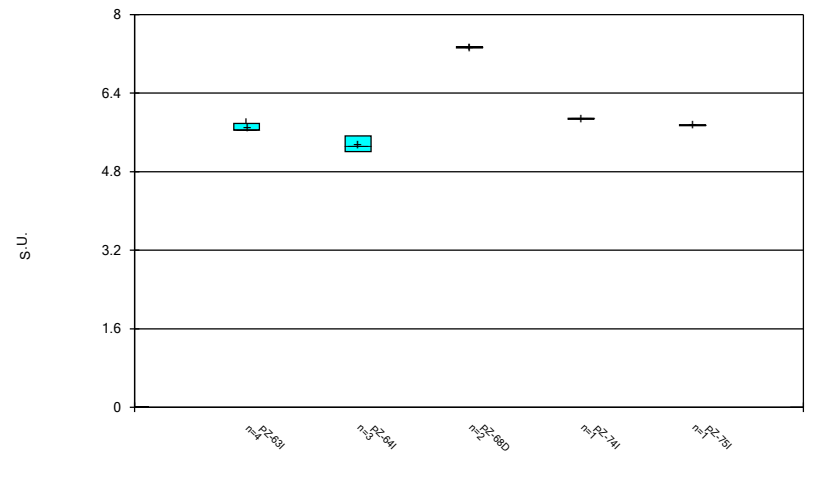
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



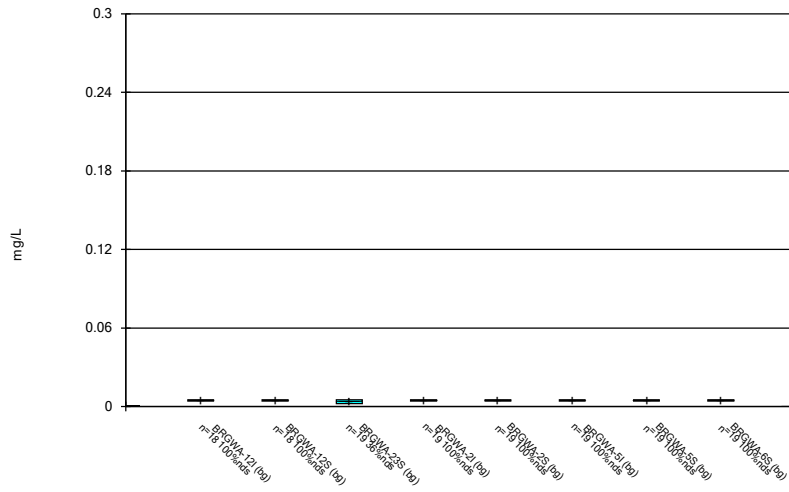
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



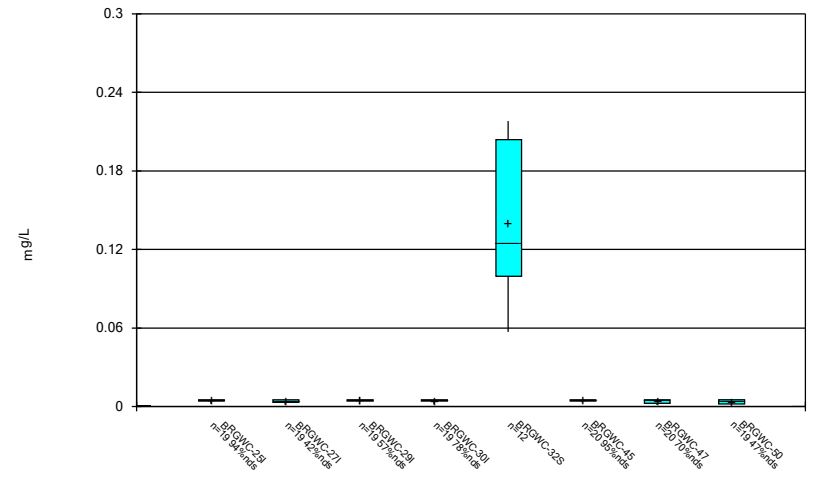
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



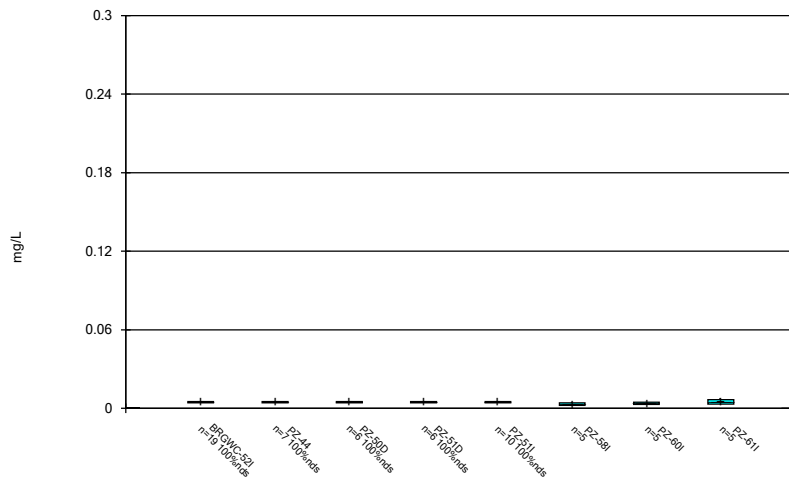
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Box & Whiskers Plot



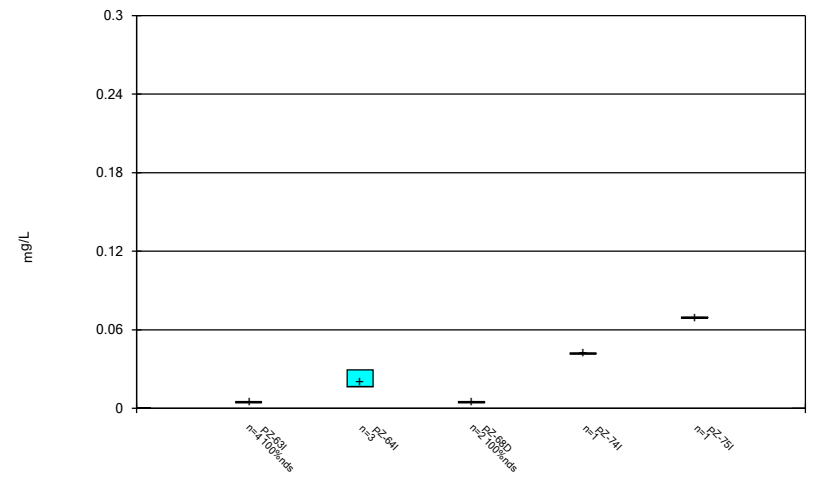
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Box & Whiskers Plot



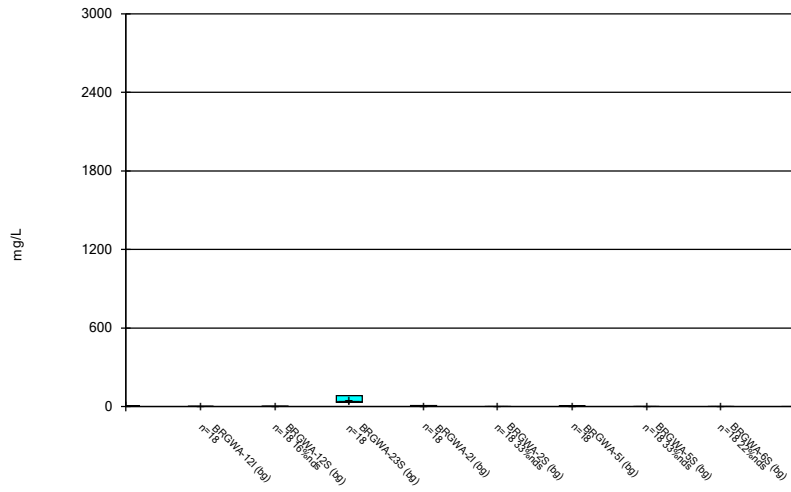
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Box & Whiskers Plot



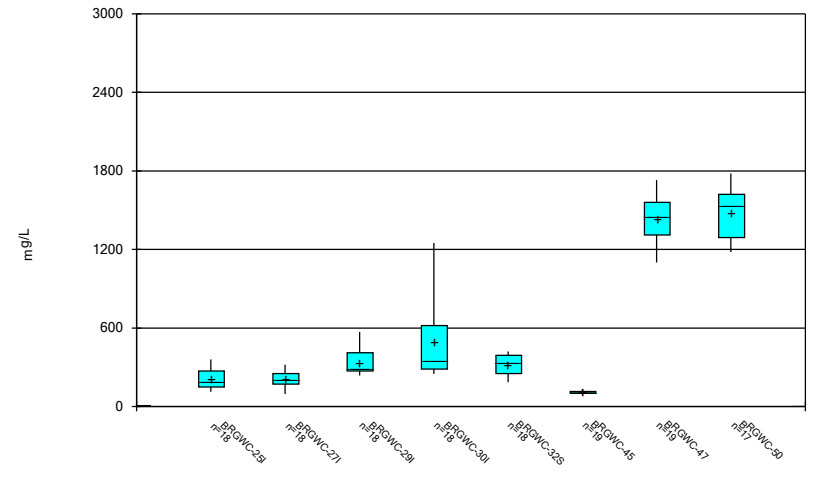
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Box & Whiskers Plot



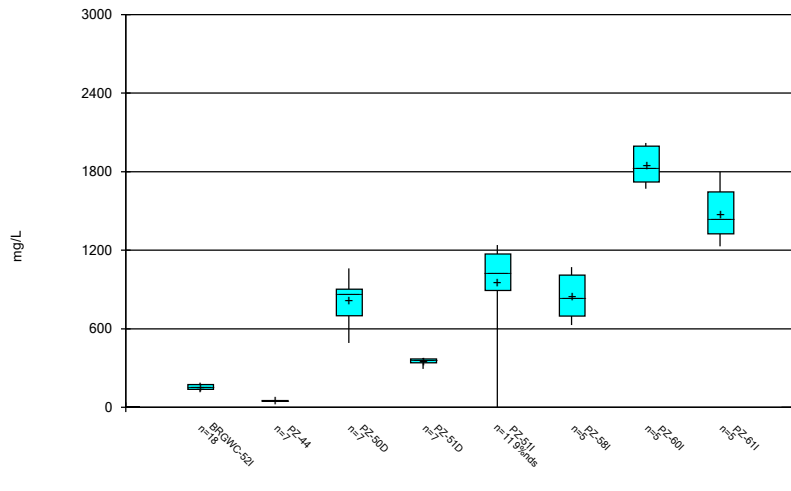
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Box & Whiskers Plot



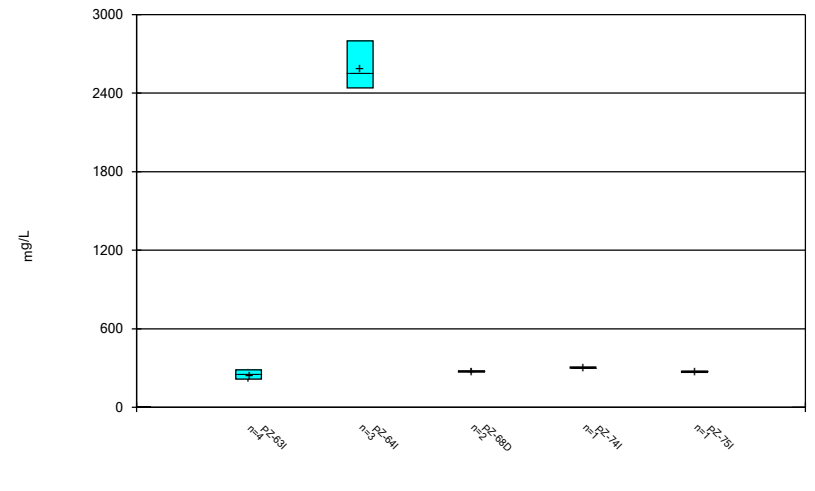
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



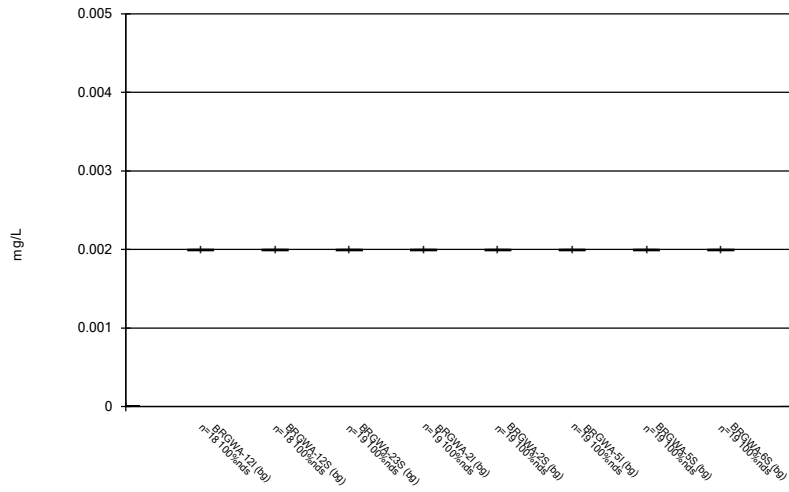
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Box & Whiskers Plot



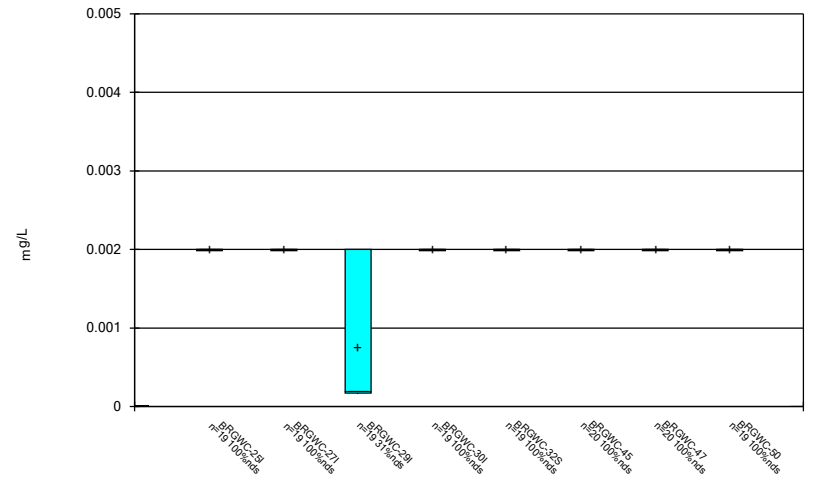
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



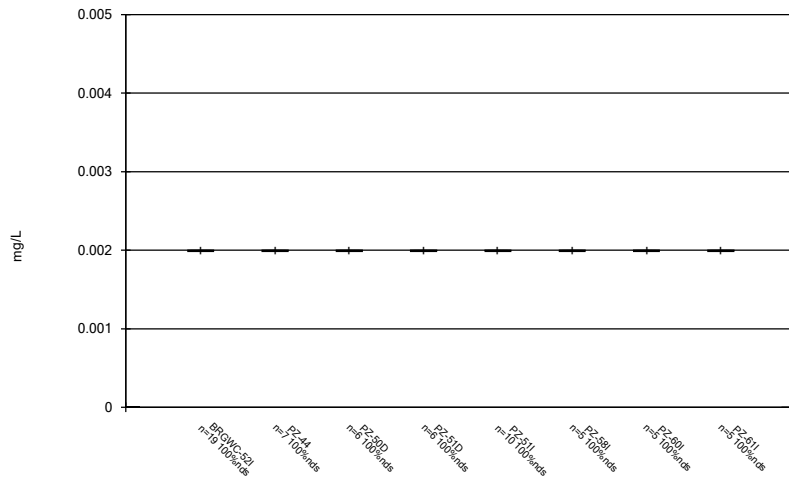
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



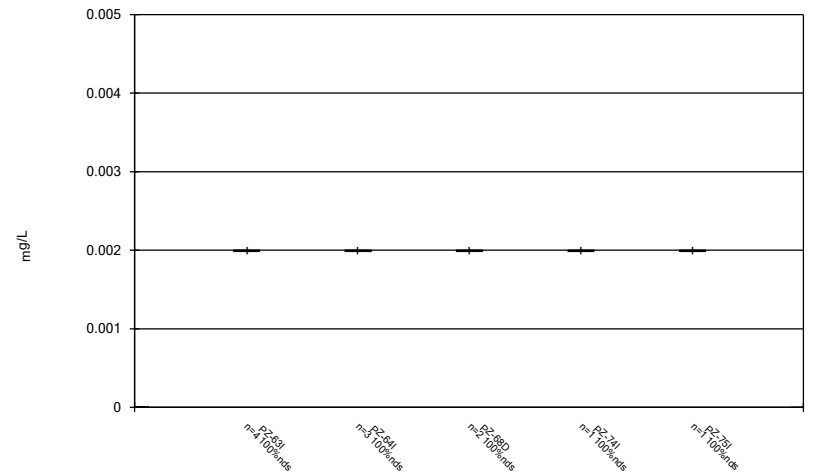
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



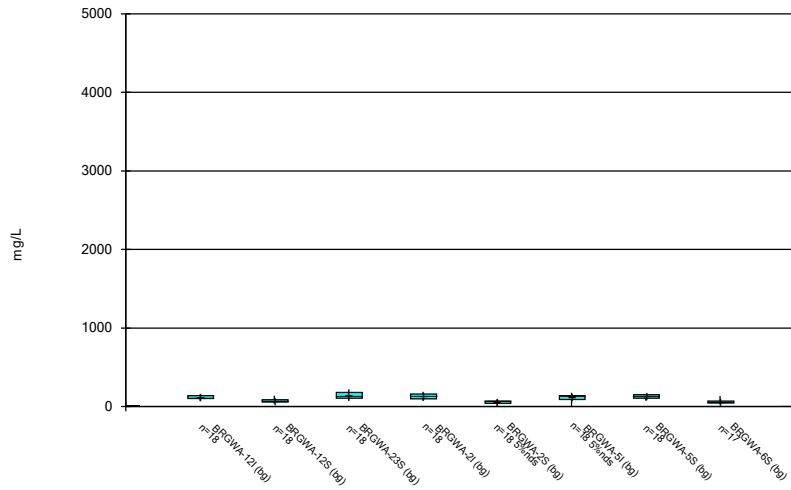
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



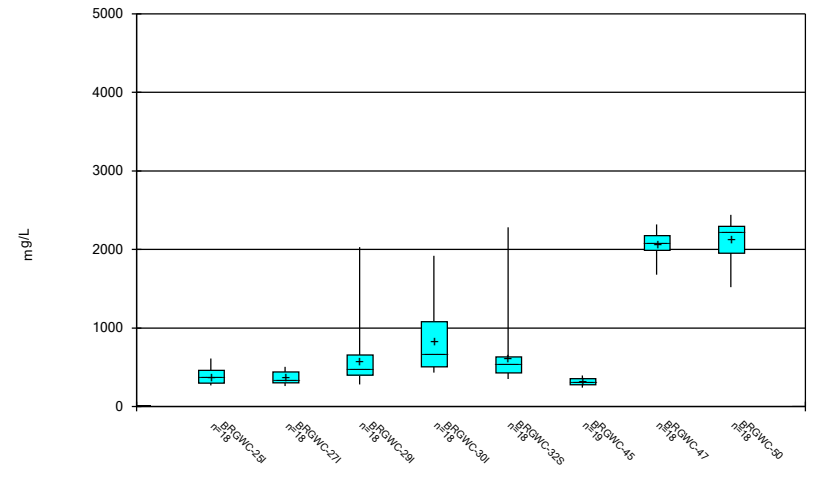
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



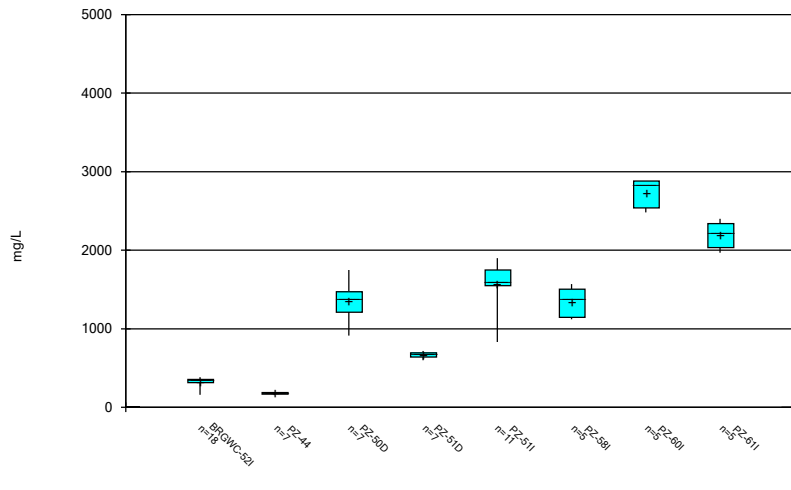
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Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



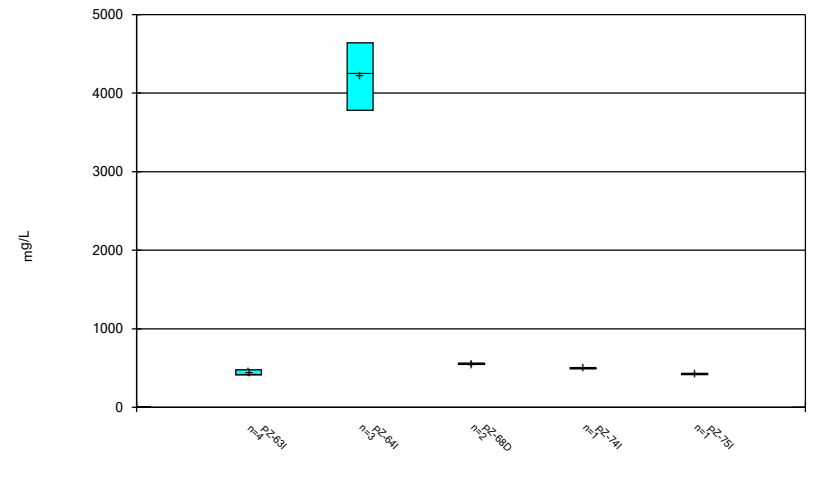
Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 6:32 PM

	BRGWC-521 Calcium (mg/L)	BRGWA-51 Cobalt (mg/L)	BRGWC-521 Fluoride (mg/L)	BRGWC-291 Lead (mg/L)	BRGWC-45 Lithium (mg/L)	BRGWC-50 Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)	BRGWC-47 Total Dissolved Solids (mg/L)
9/1/2016						299 (o)		
11/16/2016	<0.01 (o)							
2/13/2018	<0.01 (o)							
2/14/2018			<0.002 (o)					
6/27/2018							31 (OX)	
7/31/2018				<0.01 (o)				
8/10/2018	410 (O)		1.6 (O)					
1/16/2019						589 (O)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

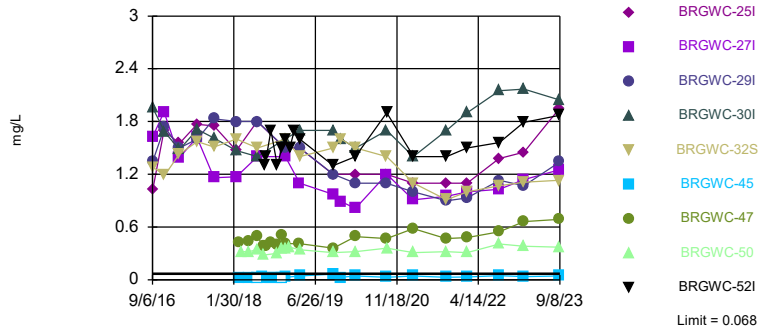
Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-45	0.068	n/a	9/6/2023	0.0444	No	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/25/2023	4.81	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/23/2023	3.35	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/23/2023	4.3	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/25/2023	4.67	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/25/2023	0.25	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/25/2023	0.302	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/25/2023	0.0849J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/23/2023	0.116	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/23/2023	0.0477J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/25/2023	0.185	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/25/2023	0.243	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/25/2023	0.188J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.016	5.595	8/24/2023	6.14	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.016	5.595	8/24/2023	6.01	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-30I	7.016	5.595	8/22/2023	6.44	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.016	5.595	8/22/2023	5.98	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.016	5.595	8/24/2023	5.71	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.016	5.595	8/24/2023	5.69	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-52I	7.016	5.595	8/24/2023	6.24	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.13 - UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I

Prediction Limit
Interwell Non-parametric



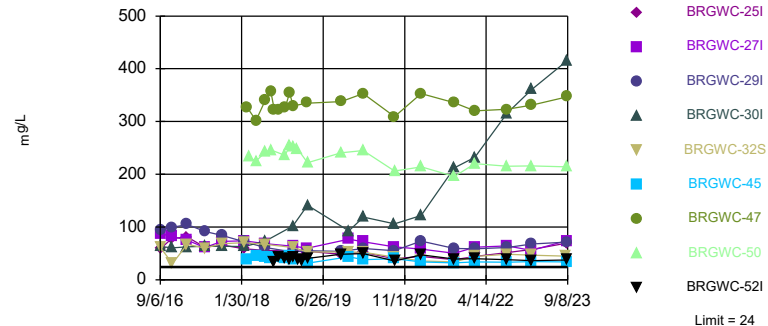
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 142 background values. 52.11% NDs. Annual per-constituent alpha = 0.001361. Individual comparison alpha = 0.00009726 (1 of 2). Comparing 9 points to limit.

Constituent: Boron Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 - UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,...

Prediction Limit
Interwell Non-parametric



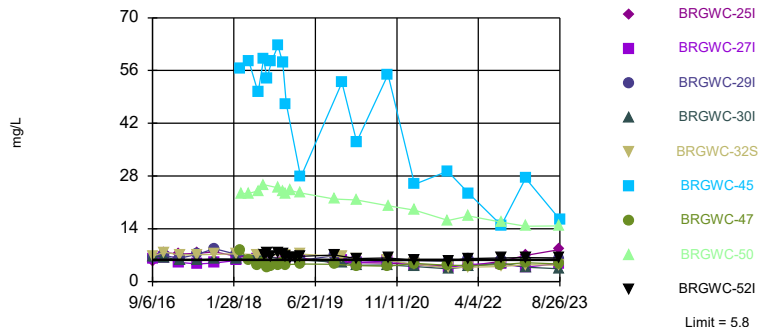
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. 4.167% NDs. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

Constituent: Calcium Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 - UG

Exceeds Limit: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, BRGWC-52I

Prediction Limit
Interwell Non-parametric



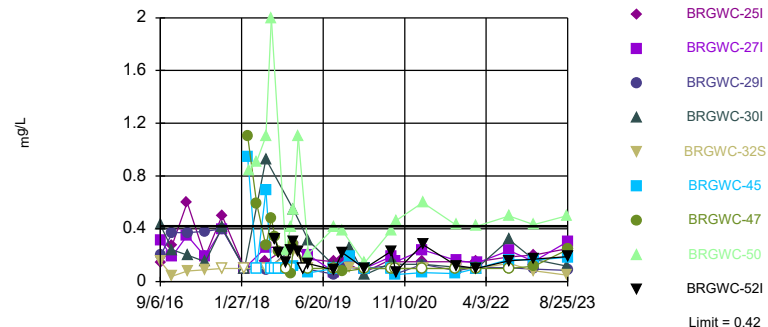
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

Constituent: Chloride Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 - UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-50

Prediction Limit
Interwell Non-parametric

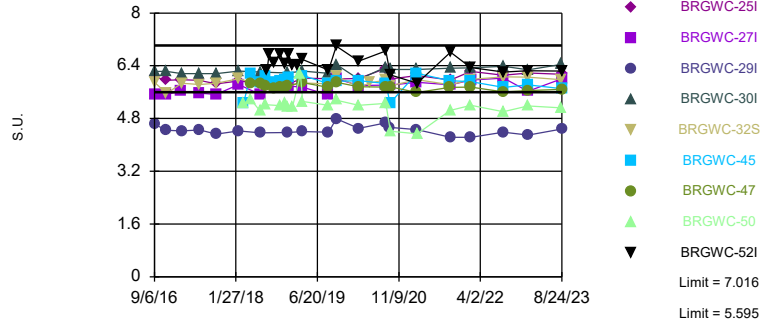


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 158 background values. 50% NDs. Annual per-constituent alpha = 0.001103. Individual comparison alpha = 0.00007882 (1 of 2). Comparing 9 points to limit.

Constituent: Fluoride Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Exceeds Limits: BRGWC-29I, BRGWC-50

Prediction Limit Interwell Parametric

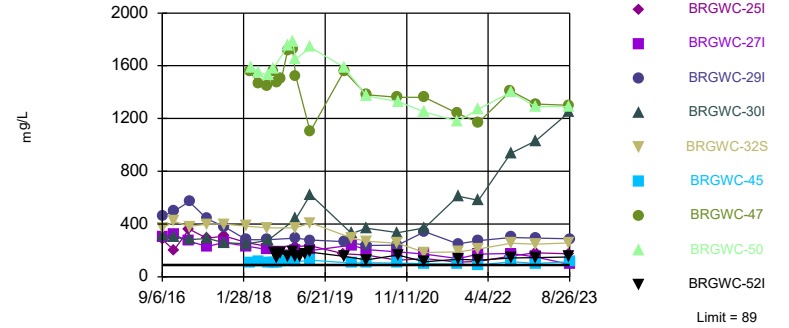


Background Data Summary: Mean=6.306, Std. Dev.=0.3824, n=160. Normality test: Chi Squared @alpha = 0.01, calculated = 5.875, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 9 points to limit.

Constituent: pH, Field Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,...

Prediction Limit Interwell Non-parametric

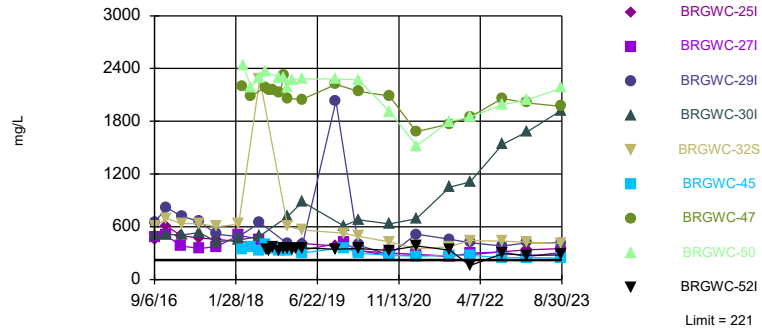


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. 13.19% NDs. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

Constituent: Sulfate Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,...

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. 1.399% NDs. Annual per-constituent alpha = 0.001345. Individual comparison alpha = 0.00009611 (1 of 2). Comparing 9 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	<0.015	<0.015	<0.015	0.0072 (J)					
9/1/2016					<0.015	<0.015	0.0093 (J)		
9/6/2016								0.0362 (J)	1.96
9/8/2016									
11/15/2016	0.0085 (J)				0.0123 (J)				
11/16/2016		0.0187 (J)	0.0109 (J)	0.0117 (J)		0.0081 (J)	0.0127 (J)		
11/17/2016								0.0617	
11/18/2016									
11/21/2016									1.68
2/20/2017	0.0093 (J)	0.0066 (J)			0.0157 (J)				
2/21/2017			<0.015	0.0088 (J)		<0.015	0.0071 (J)	0.0245 (J)	
2/22/2017									1.48
6/12/2017	<0.015	<0.015		0.0133 (J)	<0.015				
6/13/2017			<0.015			<0.015		<0.015	
6/14/2017							0.0078 (J)		1.71
9/26/2017	<0.015	<0.015	<0.015	0.0093 (J)	<0.015	<0.015	<0.015	<0.015	
9/27/2017									1.61
2/13/2018	<0.015	<0.015	<0.015	0.0141 (J)	<0.015				
2/14/2018						<0.015	0.0068 (J)	0.0314 (J)	1.47
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.0056 (J)	0.0042 (J)	<0.015	0.012 (J)	0.0041 (J)	<0.015	0.008 (J)	0.062	
6/27/2018									
6/28/2018									1.4
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.0062 (J)	<0.015	<0.015	0.0086 (J)	<0.015	0.0053 (J)	0.0083 (J)	0.055	1.6
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	<0.015	<0.015	<0.015	0.00565 (JD)	<0.015	<0.015	0.008 (J)	0.068	
3/20/2019									1.7
10/15/2019	0.006 (J)	<0.015	<0.015	0.0067 (J)	0.01 (J)	<0.015	0.006 (J)	0.022 (J)	
10/16/2019									
10/17/2019									1.7
12/3/2019									
12/4/2019									1.6
3/3/2020	<0.015	<0.015	<0.015	0.0082 (J)	<0.015	0.0065 (J)	0.01 (J)		
3/4/2020								0.044 (J)	
3/5/2020									1.5
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0071 (J)	0.033 (J)	
9/16/2020									1.7
9/17/2020									
3/1/2021				<0.015	<0.015				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
3/2/2021	0.0071 (J)	0.0053 (J)	<0.015			<0.015	0.0057 (J)	0.042	
3/3/2021									1.4
3/4/2021									
9/21/2021	<0.015	<0.015				<0.015	<0.015		
9/22/2021			<0.015	<0.015	<0.015			0.047	
9/23/2021									
9/27/2021									
9/28/2021									1.7
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.046	
2/2/2022									1.9
2/3/2022									
2/4/2022									
8/23/2022	0.00538 (J)	<0.015	0.00532 (J)	0.00592 (J)	<0.015	<0.015	0.00653 (J)	0.0498	
8/24/2022									2.15
8/25/2022									
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.0053 (J)	0.00884 (J)	0.0437	
1/25/2023									
1/26/2023									2.17
8/31/2023	0.00764 (J)	0.0073 (J)	0.00738 (J)	0.00649 (J)	0.00611 (J)			0.039	
9/1/2023									2.05
9/6/2023									
9/8/2023									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-32S	BRGWC-271	BRGWC-251	BRGWC-291	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	1.28	1.63	1.03	1.35				
11/15/2016								
11/16/2016								
11/17/2016			1.7					
11/18/2016		1.91						
11/21/2016	1.19			1.74				
2/20/2017								
2/21/2017		1.39	1.55					
2/22/2017	1.43			1.5				
6/12/2017								
6/13/2017		1.62	1.77					
6/14/2017	1.57			1.6				
9/26/2017								
9/27/2017	1.51	1.16	1.75	1.83				
2/13/2018								
2/14/2018	1.6	1.17	1.47	1.8				
3/6/2018					0.428	0.0198 (J)		
3/15/2018							0.32	
5/1/2018					0.435 (D)	0.015 (J)	0.32	
6/26/2018			1.8					
6/27/2018	1.5 (J+X)	1.4 (J+X)		1.8 (J+X)	0.49 (J+X)			
6/28/2018						<0.015 (X)	0.34	
7/31/2018						0.035 (J)		
8/1/2018					0.39		0.28	
8/10/2018								1.3
8/23/2018					0.39	0.022 (J)		1.4
9/19/2018					0.43	0.021 (J)		1.7
10/29/2018					0.4	0.021 (J)	0.3	1.3
11/28/2018					0.51	<0.015 (X)	0.35	1.5
12/18/2018			1.5	1.5				
12/19/2018	1.6				0.41		0.35	
12/20/2018		1.4				0.028 (J)		1.6
1/16/2019							0.37	
1/17/2019								1.5
2/13/2019								1.7
3/19/2019		1.1			0.41			
3/20/2019	1.4		1.5 (D)	1.5		0.043	0.34	1.6 (D)
10/15/2019			1.2					
10/16/2019				1.2	0.36		0.31	1.3
10/17/2019	1.5	0.97				0.064		
12/3/2019						0.027 (J)		
12/4/2019	1.6	0.89						
3/3/2020								
3/4/2020		0.81	1.2	1.1	0.49		0.32	1.4
3/5/2020	1.5					0.044 (J)		
9/15/2020			1.2	1.1				
9/16/2020	1.4	1.2			0.47	0.028 (J)		
9/17/2020							0.36	1.9
3/1/2021								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	19.6	13.5	4.09	12.6					
9/1/2016					8.98	3.3	4.61		
9/6/2016								63.3	12.8
9/8/2016									
11/15/2016	21.7					3.44			
11/16/2016		14.9	4.25	12.1	15.4		4.17		
11/17/2016									19.2
11/18/2016									
11/21/2016								60.7	
2/20/2017	21.1	13.9				3.52			
2/21/2017			4.02	11.4	17.4		5		15.1
2/22/2017								62.1	
6/12/2017	21.5	13.7		9.34		3.11			
6/13/2017			3.84				4.98		10.2
6/14/2017					18.1			63.5	
9/26/2017	24	14.4	3.31	14.3	19.3	3.15	4.49		15
9/27/2017								63.5	
2/13/2018	<25	<25	3.94	<25		3.65			
2/14/2018					<25		<25	62.8	<25
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	23.5 (J)	13.5 (J)	3.6	16 (J)	15.5 (J)	3.3	6.4		18.5 (J)
6/27/2018									
6/28/2018								73.3	
7/31/2018					18.2 (J)		6.1		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	19.8 (J)	16.4 (J)	3.8	14.5 (J)	18.7 (J)	3.5	5.5	102	16.8 (J)
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	21.4 (J)	12.3 (J)	3.9	14.3 (JD)	15.9 (J)	3.6	5.9		13.5 (J)
3/20/2019								141	
10/15/2019	20	14.4	3.7	15.1	15.9	3.5	6.2		8.6
10/16/2019									
12/3/2019									
12/4/2019								92.6	
3/3/2020	23.2	14.9	4	20	19.4	5	6.8		
3/4/2020									11.5
3/5/2020								119	
9/15/2020	16.8	12.7	3.9	14.1	14.5	3.7	5.7		10.7
9/16/2020								106	
9/17/2020									
3/1/2021				15.4		4.2			
3/2/2021	16.8	13.2	4		11.7		5.4		11.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	59.4	93.9	60.5	87.2				
11/15/2016								
11/16/2016								
11/17/2016	78.4							
11/18/2016				82.4				
11/21/2016		99.1	31.1					
2/20/2017								
2/21/2017	80.9			75.1				
2/22/2017		105	67.3					
6/12/2017								
6/13/2017	62			61				
6/14/2017		91.3	60.2					
9/26/2017								
9/27/2017	65.8	84	68.4	72.6				
2/13/2018								
2/14/2018	58.8	72.1	70.2	74.1				
3/6/2018					326	39.5		
3/15/2018							233	
5/1/2018					302 (D)	45.5	225	
6/26/2018	55.5							
6/27/2018		61.1	67.1	68.2	340			
6/28/2018						41.9	242	
7/31/2018						41.5		
8/1/2018					358		246	
8/10/2018								410 (O)
8/23/2018					323	42.3		33.9
9/19/2018					321	41.9		42.3
10/29/2018					326	40.8	236	39.8
11/28/2018					354	45.1	254	38.2
12/18/2018	54.7	52.9						
12/19/2018			61.2		330		252	
12/20/2018				63.9		39		43.2
1/16/2019							248	
1/17/2019								39.4
2/13/2019								36.9
3/19/2019				60.2	335			
3/20/2019	53.95 (D)	55.4	52.8			31.2	222	40.85 (D)
10/15/2019	48.3							
10/16/2019		54			338		241	48.4
12/3/2019						43.7		
12/4/2019			52.7	76.8				
3/3/2020								
3/4/2020	52	59.3		72.3	353		245	49.5
3/5/2020			52.1			37.9		
9/15/2020	40.1	55.1						
9/16/2020			43.1	62.5	309	39.7		
9/17/2020							206	35.4
3/1/2021								
3/2/2021	44.1				353	33.9		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	3.6	4.4	2	2.3					
9/1/2016					3.3	2.5	3.5		
9/6/2016								6.7	5.8
9/8/2016									
11/15/2016	4					2.3			
11/16/2016		4.4	1.8	2	3.6		3.6		
11/17/2016									4.3
11/18/2016									
11/21/2016								6.5	
2/20/2017	3.9	4.8				2.4			
2/21/2017			1.8	2	3.2		3.2		3.5
2/22/2017								5.6	
6/12/2017	3.8	4.2		2.1		2.2			
6/13/2017			1.7				3.3		3.2
6/14/2017					3.1			5.7	
9/26/2017	4.1	4.4	1.8	2	3.3	2.3	3.3		3.5
9/27/2017								6	
2/13/2018	4.1	4.7	1.7	2.1		2.3			
2/14/2018					3.1		3.5	5.9	3.8
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	4.1	4.5	2.2	2.4	3.4	2.6	3.4		3.8
6/27/2018									
6/28/2018								7 (J-X)	
7/31/2018					2.6		2.9		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	3.8	4.5	1.9	1.8	2.8	2.3	2.9	5.8	3.9
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	4.2	4.5	2	2.45 (D)	3.2	2.6	3.5		3.8
3/20/2019								5.8	
10/15/2019	3.7	4.2	1.9	2.2	3.1	2.4	3.4		3.5
10/16/2019									
12/3/2019									
12/4/2019								5	
3/3/2020	3.6	3.9	1.9	1.9	2.6	2.9	3.2		
3/4/2020									3.3
3/5/2020								4.3	
9/15/2020	3.7	3.7	1.7	1.9	2.4	2.3	3.5		3.1
9/16/2020								4.4	
9/17/2020									
3/1/2021				1.8		2.1			
3/2/2021	3.7	3.8	1.7		2.6		3.7		3.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	5.5	6.4	6.8	6				
11/15/2016								
11/16/2016								
11/17/2016	7.7							
11/18/2016				6.3				
11/21/2016		6.9	7.8					
2/20/2017								
2/21/2017	7.3			5.1				
2/22/2017		6.2	7					
6/12/2017								
6/13/2017	7.5			4.7				
6/14/2017		7.2	7.1					
9/26/2017								
9/27/2017	7.9	8.7	7.2	4.9				
2/13/2018								
2/14/2018	6.7	7.2	7.4	5.6				
3/6/2018					8.4	56.6		
3/15/2018							23.3	
5/1/2018					5.7 (JXD)	58.5	23.4	
6/26/2018	6.7							
6/27/2018		6.3	7.1	5.9	4.4			
6/28/2018						50.2 (J-X)	24 (J-X)	
7/31/2018						59		
8/1/2018					5.2		25.7	
8/10/2018								6.9
8/23/2018					3.6	54		7.5
9/19/2018					4.1	58.4		6.6
10/29/2018					4.3	62.6	24.9	7.8
11/28/2018					5.1	58.1	24	7.2
12/18/2018	6.2	5.4						
12/19/2018			7 (J-X)		4.5 (J-X)		23.3 (J-X)	
12/20/2018				5.6 (J-X)		47.2 (J-X)		6.6 (J-X)
1/16/2019							24.1	
1/17/2019								6.4
2/13/2019								6.5
3/19/2019				5.8	4.7			
3/20/2019	6.3 (D)	5.6	7.3			27.7	23.5	6.7 (D)
10/15/2019	5							
10/16/2019		6.9			4.6		21.9	7
12/3/2019						52.8		
12/4/2019			6.6	5.6				
3/3/2020								
3/4/2020	5	5.8		5.1	4.2		21.6	6.1
3/5/2020			6			37.1		
9/15/2020	4.9	5.5						
9/16/2020			5.6	5.4	4.1	54.9		
9/17/2020							20.1	6.3
3/1/2021								
3/2/2021	4.5				4.8	25.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021		5.6		4.5				
3/4/2021			4.6				18.9	5.6
9/21/2021								
9/22/2021								
9/23/2021					4.3	29.3		
9/27/2021							16.2	
9/28/2021	4.2	5.4	3.6	3.7				5.5
2/1/2022								
2/2/2022	4.2		3.8		4.2	23.4		6.1
2/3/2022		6.1					17.4	
2/4/2022				4.6				
8/23/2022	5.38				4.49			
8/24/2022		5.84					15.8	
8/25/2022			3.96	4.65		14.9		6.27
1/24/2023			4.49					
1/25/2023				3.81		27.4	14.7	6.35
1/26/2023	6.96	5.59			4.96			
8/23/2023			4.3					
8/25/2023	8.47	6.08		4.81	4.67		14.8	6.28
8/26/2023						16.5		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.19 (J)	0.07 (J)	0.05 (J)	0.11 (J)					
9/1/2016					0.2 (J)	0.06 (J)	0.05 (J)		
9/6/2016								0.43	0.42
9/8/2016									
11/15/2016	0.13 (J)					0.06 (J)			
11/16/2016		0.07 (J)	0.07 (J)	0.08 (J)	0.14 (J)		0.03 (J)		
11/17/2016									0.15 (J)
11/18/2016									
11/21/2016								0.24 (J)	
2/20/2017	0.08 (J)	0.06 (J)				0.04 (J)			
2/21/2017			0.05 (J)	0.14 (J)	0.16 (J)		0.04 (J)		0.1 (J)
2/22/2017								0.2 (J)	
6/12/2017	0.07 (J)	0.008 (J)		0.16 (J)		0.06 (J)			
6/13/2017			0.04 (J)				0.008 (J)		0.07 (J)
6/14/2017					0.09 (J)			0.15 (J)	
9/26/2017	0.04 (J)	<0.1	<0.1	0.14 (J)	0.1 (J)	<0.1	<0.1		<0.1
9/27/2017								0.41	
2/13/2018	<0.1	<0.1	<0.1	<0.1		<0.1			
2/14/2018					<0.1		<0.1	<0.1	<0.1
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.072 (J)	0.045 (J)	0.048 (J)	0.085 (J)	0.079 (J)	0.041 (J)	0.042 (J)		0.053 (J)
6/27/2018									
6/28/2018								0.93 (J+X)	
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	<0.1	<0.1	<0.1	0.085 (J)	<0.1	<0.1	<0.1	0.54	<0.1
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.06 (J)	<0.1	0.037 (J)	0.0655 (JD)	<0.1	0.03 (J)	<0.1		<0.1
3/20/2019								0.31	
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12 (J)	
8/28/2019									
8/29/2019									0.084 (J)
10/15/2019	0.045 (J)	<0.1	<0.1	<0.1	0.047 (J)	<0.1	<0.1		<0.1
10/16/2019									
12/3/2019									
12/4/2019								0.26 (J)	
3/3/2020	0.057 (J)	<0.1	0.05 (J)	0.066 (J)	0.056 (J)	0.09 (J)	<0.1		<0.1
3/4/2020									
3/5/2020								0.051 (J)	
8/18/2020	<0.1	<0.1	<0.1	<0.1	0.052 (J)	<0.1	<0.1		<0.1
8/19/2020								0.14	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D
 Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/20/2020									
9/15/2020	0.051 (J)	<0.1	<0.1	<0.1	0.062 (J)	<0.1	<0.1		<0.1
9/16/2020								0.13	
9/17/2020									
3/1/2021				<0.1		<0.1			
3/2/2021	<0.1	<0.1	<0.1		0.061 (J)		<0.1		<0.1
3/3/2021								0.13	
3/4/2021									
9/21/2021	0.056 (J)	<0.1			0.071 (J)		<0.1		
9/22/2021			<0.1	<0.1		<0.1			0.069 (J)
9/23/2021									
9/27/2021									
9/28/2021								0.11	
2/1/2022	<0.1	<0.1	<0.1	<0.1	0.055 (J)	<0.1	<0.1		<0.1
2/2/2022								0.1	
2/3/2022									
2/4/2022									
8/23/2022	<0.1	<0.1	<0.1	<0.1	0.151	<0.1	0.129		0.157
8/24/2022								0.318	
8/25/2022									
1/24/2023	0.158	0.149	<0.1	<0.1	0.214	0.12	0.0926 (J)		0.231
1/25/2023									
1/26/2023								0.167	
8/23/2023	0.277	0.289	0.229	0.267		0.0787 (J)		0.116	0.114
8/24/2023									
8/25/2023									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	0.31	0.14 (J)	0.15 (J)	0.2 (J)				
11/15/2016								
11/16/2016								
11/17/2016		0.27 (J)						
11/18/2016	0.19 (J)							
11/21/2016			0.04 (J)	0.37				
2/20/2017								
2/21/2017	0.35	0.6						
2/22/2017			0.08 (J)	0.37				
6/12/2017								
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.09 (J)	0.38				
9/26/2017								
9/27/2017	0.4	0.5	<0.1	0.4				
2/13/2018								
2/14/2018	<0.1	<0.1	<0.1	<0.1				
3/6/2018					1.1	0.94		
3/15/2018							0.84 (JX)	
5/1/2018					0.595 (D)	<0.1	0.91	
6/26/2018		0.15 (J)						
6/27/2018	0.26 (J)		<0.1	0.085 (J)	0.27 (J)			
6/28/2018						0.69 (J+X)	1.1 (J+X)	
7/31/2018						<0.1		
8/1/2018					0.48		2	
8/10/2018								1.6 (O)
8/23/2018					0.34	<0.1		0.32
9/19/2018					0.23 (J)	<0.1		0.22 (J)
10/29/2018					<0.1	<0.1	0.24 (J)	0.14 (J)
11/28/2018					0.063 (J)	<0.1	0.41	0.24 (J)
12/18/2018		0.29 (J)		0.26 (J)				
12/19/2018			0.23 (J)		0.28 (J)		0.54	
12/20/2018	0.26 (J)					0.12 (J)		0.3
1/16/2019							1.1	
1/17/2019								0.23 (J)
2/13/2019								<0.1
3/19/2019	0.2 (J)				<0.1			
3/20/2019		0.17 (JD)	<0.1	0.091 (J)		0.066 (J)	0.21 (J)	0.135 (JD)
8/27/2019		0.15 (J)	<0.1					
8/28/2019	0.074 (J)			0.055 (J)	<0.1	<0.1		
8/29/2019							0.41	0.087 (J)
10/15/2019		0.16 (J)						
10/16/2019				0.11 (J)	0.076 (J)		0.39	0.22 (J)
12/3/2019						0.19 (J)		
12/4/2019	0.18 (J)		0.11 (J)					
3/3/2020								
3/4/2020	<0.1	0.07 (J)		<0.1	<0.1		0.14 (J)	0.1 (J)
3/5/2020			<0.1			<0.1		
8/18/2020								
8/19/2020	0.19	0.17	<0.1	0.12				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/20/2020					<0.1	<0.1	0.39	0.23
9/15/2020		0.15		0.057 (J)				
9/16/2020	0.15		<0.1		<0.1	0.052 (J)		
9/17/2020							0.46	0.074 (J)
3/1/2021								
3/2/2021		0.15			<0.1	0.067 (J)		
3/3/2021	0.24			0.13				
3/4/2021			<0.1				0.6	0.28
9/21/2021								
9/22/2021								
9/23/2021					<0.1	0.06 (J)		
9/27/2021							0.43	
9/28/2021	0.16	0.15	<0.1	0.081 (J)				0.12
2/1/2022								
2/2/2022		0.15	<0.1		<0.1	<0.1		0.098 (J)
2/3/2022				0.11			0.42	
2/4/2022	0.14							
8/23/2022		0.186			<0.1			
8/24/2022				0.103			0.497	
8/25/2022	0.234		0.138			0.166		0.157
1/24/2023			0.082 (J)					
1/25/2023	0.152					0.163	0.432	0.169
1/26/2023		0.202		0.0935 (J)	0.117			
8/23/2023			0.0477 (J)					
8/24/2023							0.499	
8/25/2023	0.302	0.25		0.0849 (J)	0.243	0.185		0.188 (J)

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	6.07	4.62	5.89	5.51				
11/15/2016								
11/16/2016	5.96							
11/17/2016								
11/18/2016				5.53				
11/21/2016		4.44	5.56					
2/20/2017								
2/21/2017	5.98			5.63				
2/22/2017		4.42	5.87					
6/12/2017								
6/13/2017	5.96			5.57				
6/14/2017		4.45	5.83					
9/26/2017								
9/27/2017	5.85	4.33	5.87	5.53				
2/13/2018								
2/14/2018	5.94	4.42	6.01	5.83				
3/15/2018					5.26	5.26		
5/1/2018					6.14	5.38	5.85	
6/26/2018	5.87							
6/27/2018		4.37	5.83	5.53			5.87	
6/28/2018					5.88	5.03		
7/31/2018					6.07			
8/1/2018						5.22	5.79	
8/10/2018								6.28
8/23/2018								6.75
9/19/2018					5.9		5.71	6.48
10/29/2018					5.93	5.19	5.76	6.77
11/28/2018					5.99	5.28	5.74	6.44
12/18/2018	5.84	4.38						
12/19/2018			5.79			5.15	5.8	
12/20/2018				5.78	6.04			6.75
1/16/2019						5.14		
1/17/2019								6.41
2/13/2019								6.42
3/6/2019						6.15		
3/19/2019				5.75			5.89	
3/20/2019	6.03	4.4	5.88		6.1	5.32		6.59
8/27/2019	6.01		5.85					
8/28/2019		4.39		5.51	5.86		5.74	
8/29/2019						5.2		6.27
10/15/2019	6							
10/16/2019		4.79				5.36	5.9	7
10/17/2019			6.09	6.01 (D)	5.93			
3/3/2020								
3/4/2020	6.02	4.5		5.8		5.2	5.76	6.54
3/5/2020			5.74		5.95			
5/12/2020			5.88					
8/18/2020								
8/19/2020	6.32	4.67	5.97	5.81				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/20/2020					5.86	5.26	5.75	6.85
9/15/2020	6	4.53						
9/16/2020			5.79	5.81	5.27		5.76	
9/17/2020						4.41		6.12
3/1/2021								
3/2/2021	6.1				6.17		5.59	
3/3/2021		4.46		5.9				
3/4/2021			5.98			4.34		5.87
9/21/2021								
9/22/2021								
9/23/2021					5.95		5.74	
9/27/2021						5.05		
9/28/2021	5.97	4.23	5.82	5.82				6.81
2/1/2022								
2/2/2022	6.23		5.99		5.92		5.75	6.35
2/3/2022		4.23				5.2		
2/4/2022				5.97				
8/23/2022	6.11						5.61	
8/24/2022		4.39				5.01		
8/25/2022			6.06	6.03	5.74			6.21
1/24/2023			6.05					
1/25/2023				5.63	5.82	5.18		6.25
1/26/2023	6.18	4.3					5.65	
8/22/2023			5.98					
8/23/2023						5.12		
8/24/2023	6.14	4.48		6.01	5.71		5.69	6.24

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.81 (J)	2.7	0.38 (J)	7.5					
9/1/2016					2.7	0.6 (J)	1.7		
9/6/2016								310	38
9/8/2016									
11/15/2016	<1 (J)					0.68 (J)			
11/16/2016		3.4	<1 (J)	6.6	3.6		1.2		
11/17/2016									84
11/18/2016									
11/21/2016								300	
2/20/2017	1 (B-01)	3.9 (B-01)				0.98 (J)			
2/21/2017			1.5	6.1	3		1.1		39
2/22/2017								280	
6/12/2017	0.94 (J)	3.7		5		0.54 (J)			
6/13/2017			0.67 (J)				1.1		35
6/14/2017					2.6			290	
9/26/2017	0.92 (J)	4.1	0.62 (J)	5.4	2.5	0.53 (J)	1.3		89
9/27/2017								260	
2/13/2018	<1	6.6	<1	4.7 (J)		<1			
2/14/2018					2.1 (J)		<1	250	82.2
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.91 (J)	3.5	0.69 (J)	6.2	2	0.54 (J)	0.84 (J)		84.2
6/27/2018									
6/28/2018								276	
7/31/2018					1.9		0.63 (J)		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.68 (J)	4.3	0.72 (J)	5.9	2.1	0.39 (J)	0.66 (J)	440	83.4
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.74 (J)	3	0.78 (J)	6 (D)	2.2	0.68 (J)	0.75 (J)		65
3/20/2019								623	
10/15/2019	0.68 (J)	3.8	0.47 (J)	5.2	1.9	0.48 (J)	0.61 (J)		30
10/16/2019									
12/3/2019									
12/4/2019								327	
3/3/2020	0.71 (J)	2.8	0.93 (J)	7.1	1.8	2.5	0.51 (J)		
3/4/2020									38.6
3/5/2020								369	
9/15/2020	<1	1.7	<1	5.9	1.7	<1	<1		41.5
9/16/2020								334	
9/17/2020									
3/1/2021				4.7		0.74 (J)			
3/2/2021	<1	2.2	<1		1.7		0.51 (J)		54

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								371	
3/4/2021									
9/21/2021	<1	2.3			1.7		0.51 (J)		
9/22/2021			<1	5.2		<1			34.6
9/23/2021									
9/27/2021									
9/28/2021								612	
2/1/2022	<1	2	<1	5.4	1.4	<1	<1		36.8
2/2/2022								580	
2/3/2022									
2/4/2022									
8/23/2022	0.521	2.21	0.452	5.66	1.84	0.479	0.636		24.4
8/24/2022								935	
8/25/2022									
1/24/2023	0.66	3.34	0.465	3.58	1.8	0.484	0.628		19.7
1/25/2023									
1/26/2023								1030	
8/23/2023	0.54	1.83	0.526	6.85		0.467			11.3
8/24/2023								1250	
8/25/2023									
8/26/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	280	460	370	300				
11/15/2016								
11/16/2016								
11/17/2016	200							
11/18/2016				320				
11/21/2016		500	420					
2/20/2017								
2/21/2017	360			270				
2/22/2017		570	380					
6/12/2017								
6/13/2017	290			230				
6/14/2017		440	400					
9/26/2017								
9/27/2017	310	380	400	260				
2/13/2018								
2/14/2018	260	280	383	232				
3/6/2018					1560	111		
3/15/2018							1590	
5/1/2018					1465 (D)	112	1550	
6/26/2018	231							
6/27/2018		281	372	205	1450			
6/28/2018						109	1530	
7/31/2018						107		
8/1/2018					1560		1580	
8/10/2018								183
8/23/2018					1470	108		145
9/19/2018					1500	117		178
10/29/2018					1720	127	1750	157
11/28/2018					1730	133	1780	189
12/18/2018	231	293						
12/19/2018			370		1520		1650	
12/20/2018				200		113		150
1/16/2019							589 (O)	
1/17/2019								157
2/13/2019								169
3/19/2019				199	1100			
3/20/2019	235 (D)	278	409			127	1740	186.5 (D)
10/15/2019	174							
10/16/2019		266			1560		1590	155
12/3/2019						105		
12/4/2019			293	241				
3/3/2020								
3/4/2020	165	238		205	1380		1370	129
3/5/2020			269			106		
9/15/2020	126	241						
9/16/2020			255	190	1360	103		
9/17/2020							1330	165
3/1/2021								
3/2/2021	139				1360	98.3		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021		341		172				
3/4/2021			185				1250	114
9/21/2021								
9/22/2021								
9/23/2021					1240	97.5		
9/27/2021							1180	
9/28/2021	112	250	189	137				132
2/1/2022								
2/2/2022	117		210		1170	90.1		126
2/3/2022		274					1270	
2/4/2022				172				
8/23/2022	158				1410			
8/24/2022		298					1400	
8/25/2022			254	176		114		142
1/24/2023			247					
1/25/2023				150		102	1290	145
1/26/2023	182	293			1310			
8/23/2023								
8/24/2023			256					
8/25/2023	174				1300		1290	150
8/26/2023		288		94.5		114		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-25I
8/31/2016	154	138	88	151					
9/1/2016					142	69			
9/6/2016							505	146	
9/8/2016									460
11/15/2016	123								
11/16/2016		77	41	69	100	100			
11/17/2016								211	611
11/18/2016									
11/21/2016							515		
2/20/2017	158	170							
2/21/2017			<10	68	71	37		151	497
2/22/2017							504		
6/12/2017	142	132		161					
6/13/2017			53				84	130	474
6/14/2017					140		536		
9/26/2017	138	108	45	167	149	68		160	
9/27/2017							432		457
2/13/2018	150	141	63	165					
2/14/2018					137	138	448	194	431
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	154	133	71	188	142	90		221	414
6/27/2018									
6/28/2018							494		
7/31/2018					133	83			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	147	138 (X)	78 (X)	145 (X)	135	85	715	208	401
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	146	130	68	146.5 (D)	132 (JX)	82 (JX)		161 (JX)	
3/20/2019							885		410.5 (D)
10/15/2019	144	175	66	140	134	89		124	380
10/16/2019									
12/3/2019									
12/4/2019							612		
3/3/2020	130	<10	41	155	115	72			
3/4/2020								118	330
3/5/2020							681		
9/15/2020	116	100	69	116	95	60		109	272
9/16/2020							634		
9/17/2020									
3/1/2021				98					
3/2/2021	96	80	43		93	43		105	280

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016				299 (o)				
9/6/2016								
9/8/2016	654	607	478					
11/15/2016				41				
11/16/2016								
11/17/2016								
11/18/2016			503					
11/21/2016	819	695						
2/20/2017				133				
2/21/2017			380					
2/22/2017	721	635						
6/12/2017				61				
6/13/2017			354					
6/14/2017	661	635						
9/26/2017				29				
9/27/2017	518	601	376					
2/13/2018				61				
2/14/2018	487	628	503 (JX)					
3/6/2018					346	2200		
3/15/2018							2440	
5/1/2018					374	2080 (D)	2190	
6/26/2018				71				
6/27/2018	648 (X)	2280	458 (X)			31 (OX)		
6/28/2018					333		2290	
7/31/2018					393			
8/1/2018						2190	2360	
8/10/2018								344
8/23/2018					350	2160		333
9/19/2018					353	2160		364
10/29/2018					329	2130	2300	334
11/28/2018					358	2320	2300	357
12/18/2018	407			70 (X)				
12/19/2018		605				2060	2190	
12/20/2018			344		322			355
1/16/2019							2270	
1/17/2019								347
2/13/2019								350
3/19/2019			334 (JX)	72		2050 (JX)		
3/20/2019	391	564			302		2280	360 (D)
10/15/2019				63				
10/16/2019	2030					2220	2280	346
12/3/2019					362			
12/4/2019		526	422					
3/3/2020				54				
3/4/2020	391		326			2140	2270	351
3/5/2020		489			297			
9/15/2020	281			79				
9/16/2020		428	301		275	2090		
9/17/2020							1910	329
3/1/2021				39				
3/2/2021					264	1680		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
3/3/2021	515		288					
3/4/2021		350					1520	383
9/21/2021				62				
9/22/2021					277	1770		
9/23/2021								
9/27/2021							1800	
9/28/2021	457	375	262					336
2/1/2022				61				
2/2/2022		443			276	1850		160
2/3/2022	419						1850	
2/4/2022			301					
8/23/2022				52		2060		
8/24/2022	383						1990	
8/25/2022		437	311		248			296
1/24/2023		425		64				
1/25/2023			260		251		2040	276
1/26/2023	419					2010		
8/25/2023		412						
8/28/2023				30				
8/30/2023	418		309		242	1970	2180	281

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001812	22	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.05112	-32	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.08885	-68	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-30I	0.05341	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05767	-56	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-50	0.008541	42	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.05214	45	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-3.17	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-4.144	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.414	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	1.347	14	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-6.102	-62	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.2829	-8	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.409	-54	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1739	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12I (bg)	-0.008595	-35	-74	No	19	21.05	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12S (bg)	0	63	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-23S (bg)	0	17	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-50	-0.03378	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.03095	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.01574	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03717	-62	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP

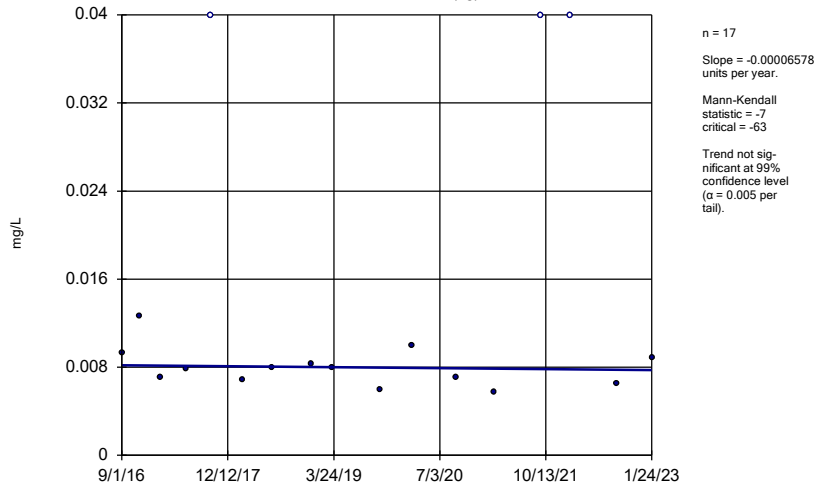
Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-29I	-25.24	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-45	-2.7	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-51.06	-73	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-87.99	-62	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-52I	-7.645	-56	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-52I	-11.87	-51	-68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

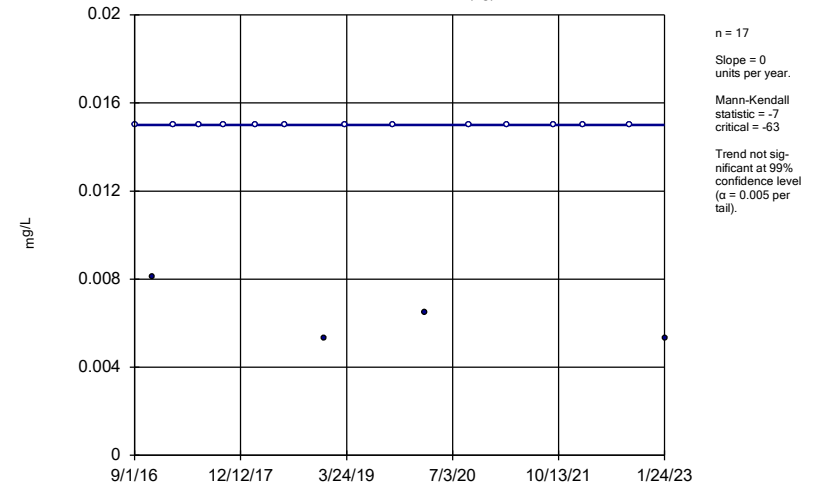
BRGWA-12I (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

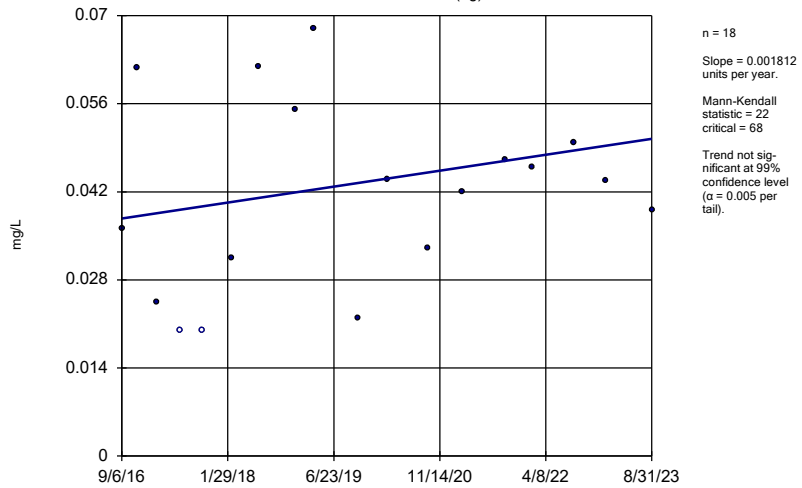
BRGWA-12S (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

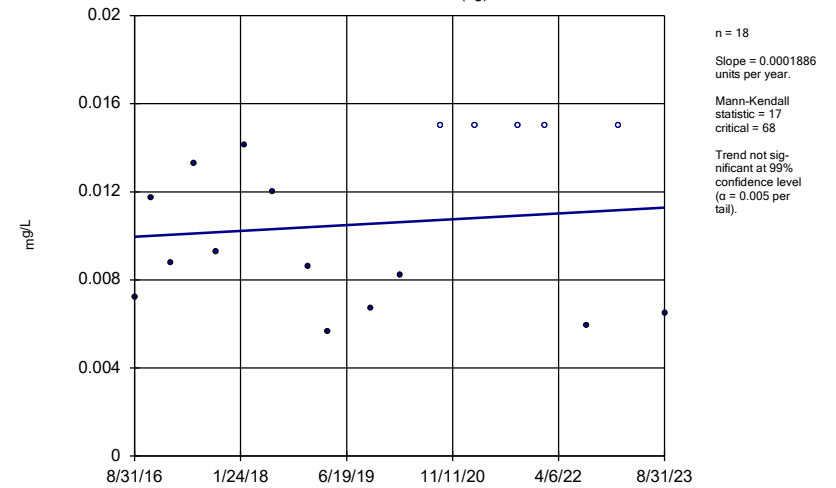
BRGWA-23S (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

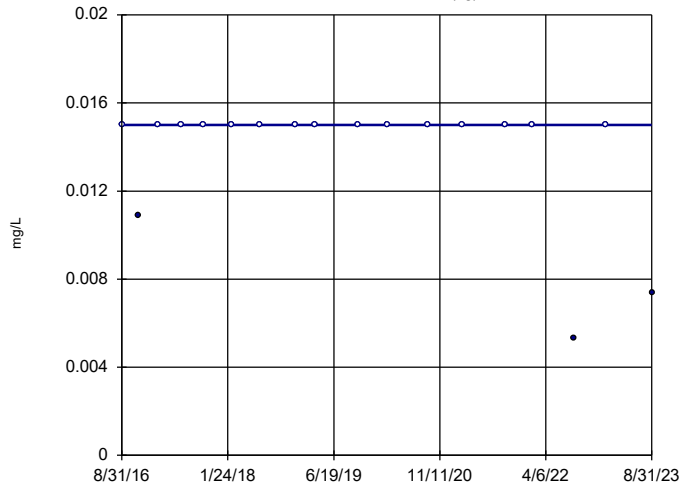
BRGWA-2I (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

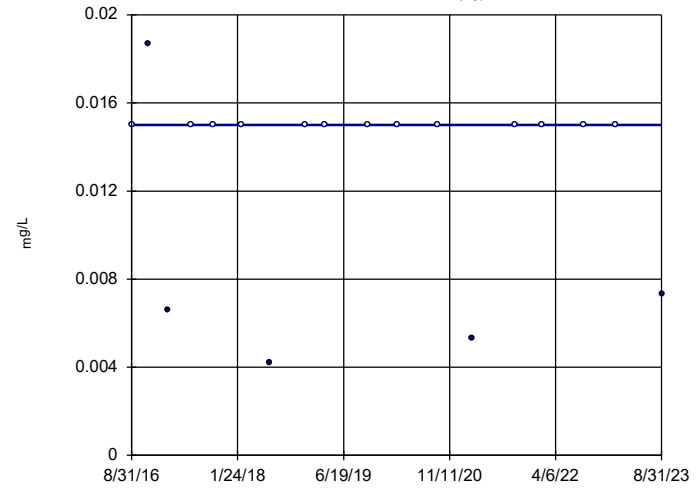
BRGWA-2S (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

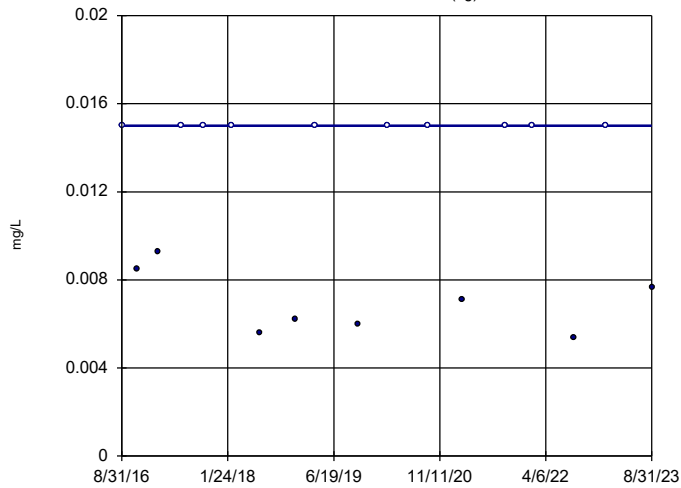
BRGWA-5I (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

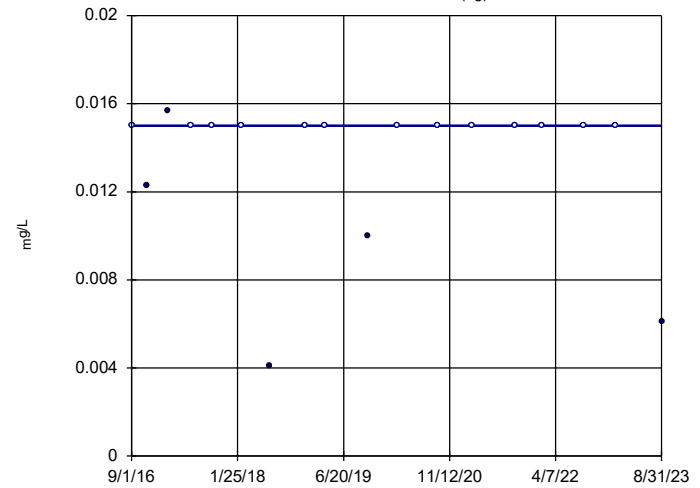
BRGWA-5S (bg)



Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

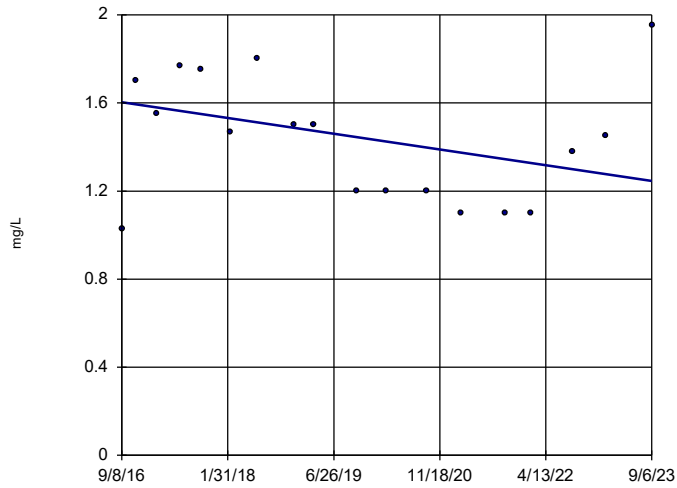
BRGWA-6S (bg)



Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-25I

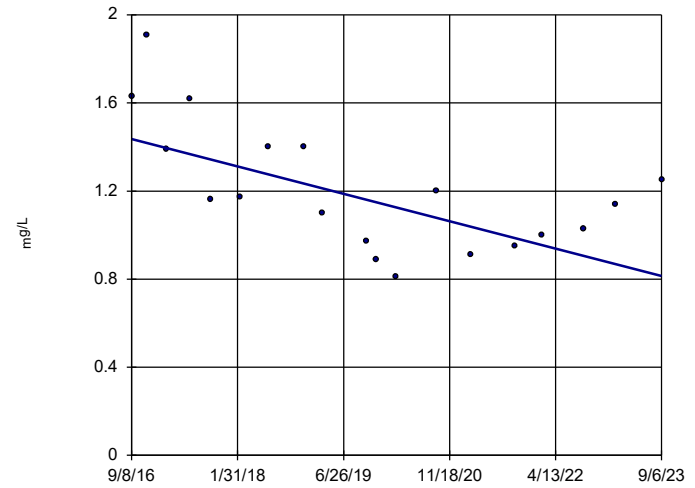


n = 18
 Slope = -0.05112
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-27I

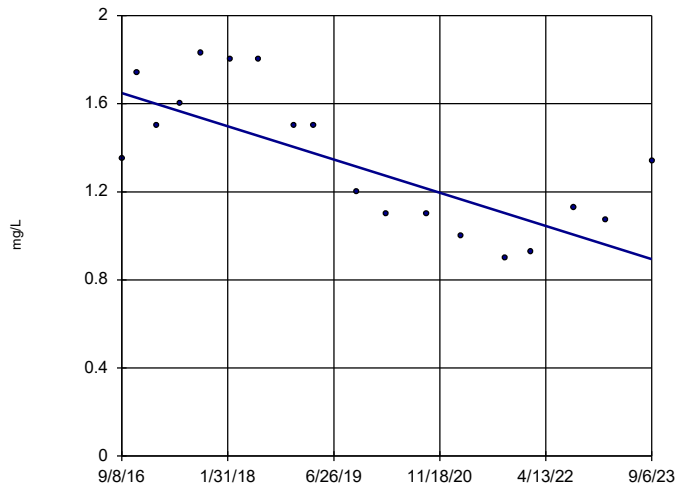


n = 19
 Slope = -0.08885
 units per year.
 Mann-Kendall
 statistic = -68
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

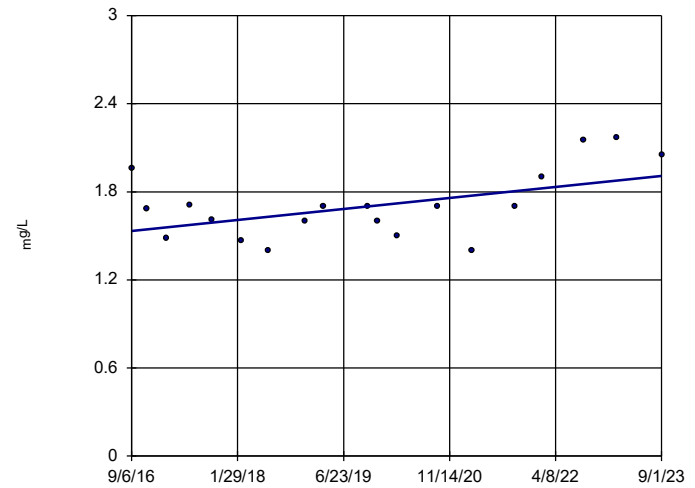


n = 18
 Slope = -0.1078
 units per year.
 Mann-Kendall
 statistic = -78
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-30I

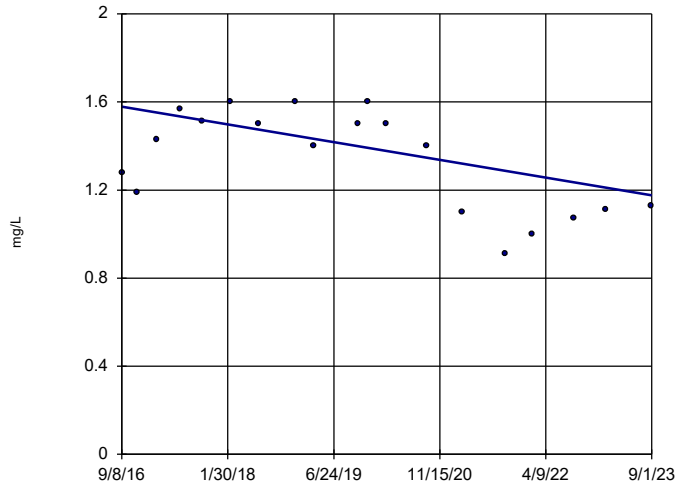


n = 19
 Slope = 0.05341
 units per year.
 Mann-Kendall
 statistic = 45
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

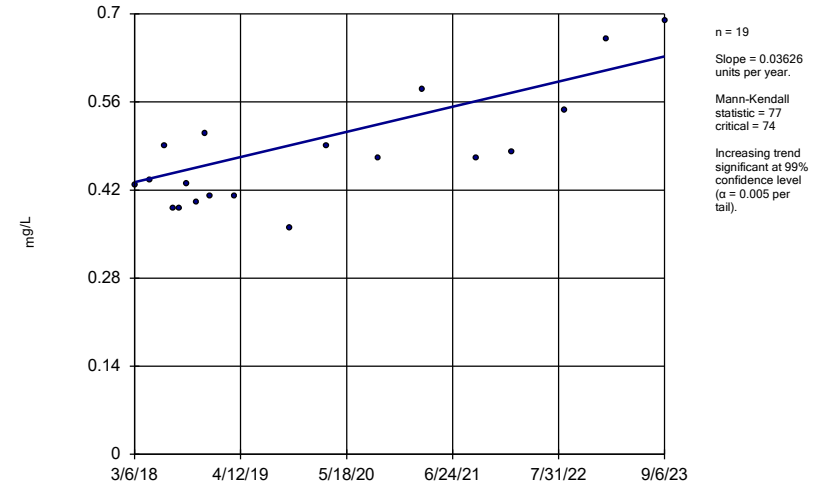
BRGWC-32S



Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

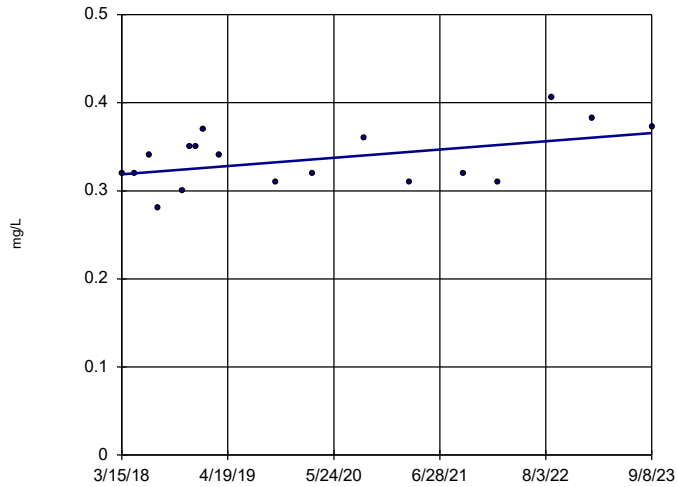
BRGWC-47



Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

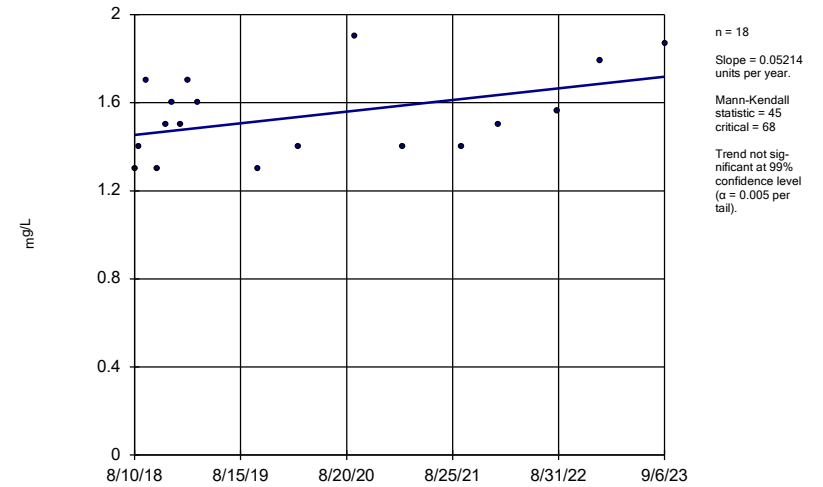
BRGWC-50



Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

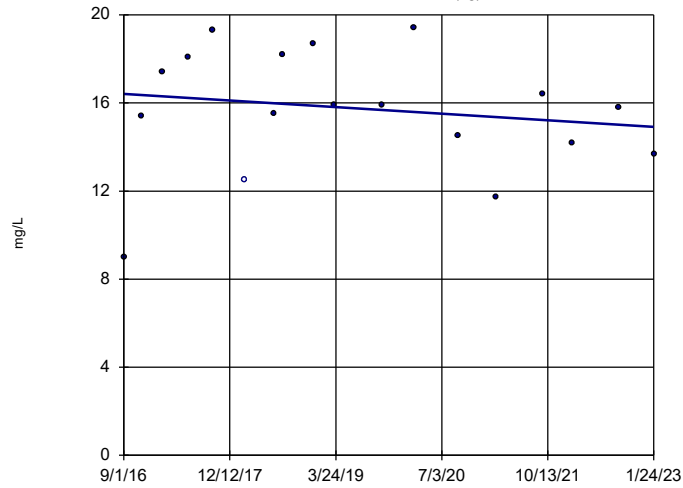
BRGWC-52I



Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

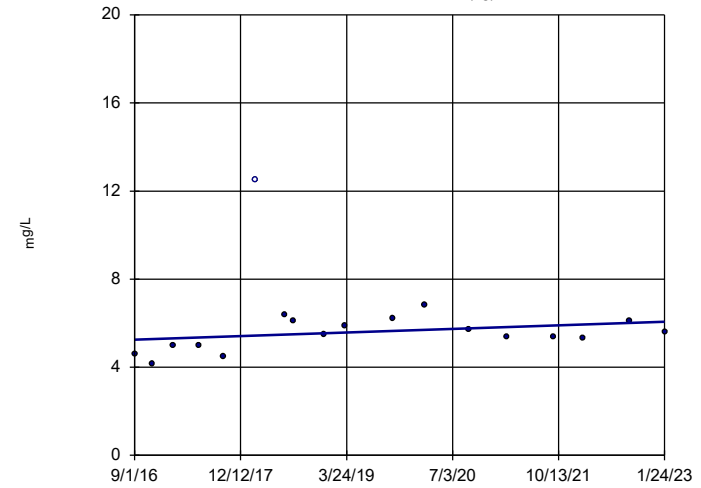


n = 18
Slope = -0.2348
units per year.
Mann-Kendall
statistic = -12
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

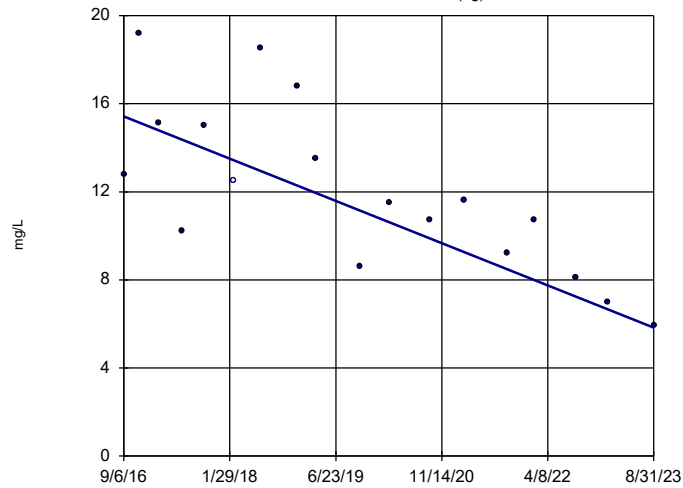


n = 18
Slope = 0.1273
units per year.
Mann-Kendall
statistic = 28
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

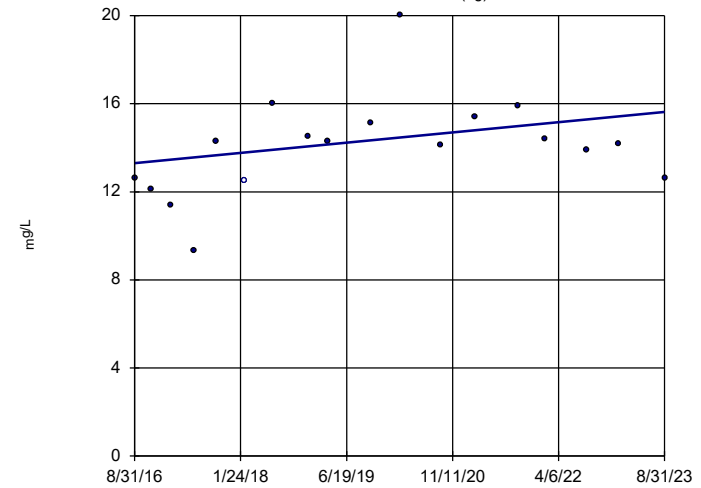


n = 18
Slope = -1.372
units per year.
Mann-Kendall
statistic = -92
critical = -68
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

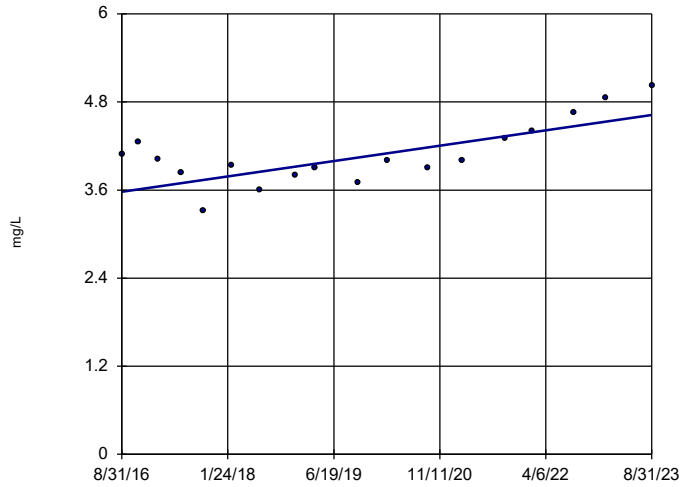


n = 18
Slope = 0.3318
units per year.
Mann-Kendall
statistic = 33
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)



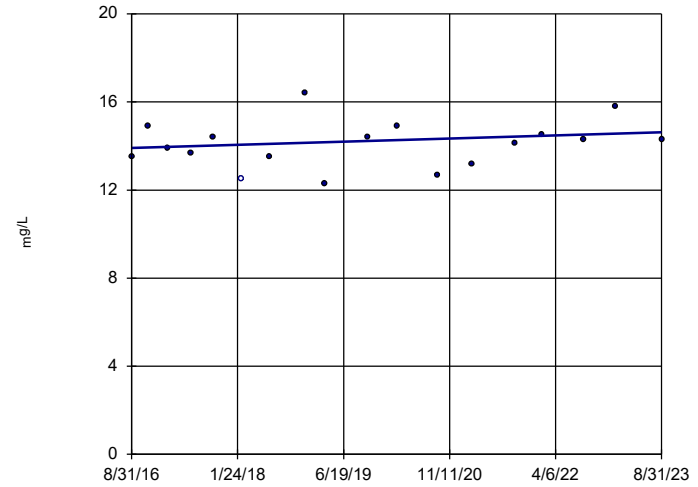
n = 18
 Slope = 0.149
 units per year.
 Mann-Kendall
 statistic = 63
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



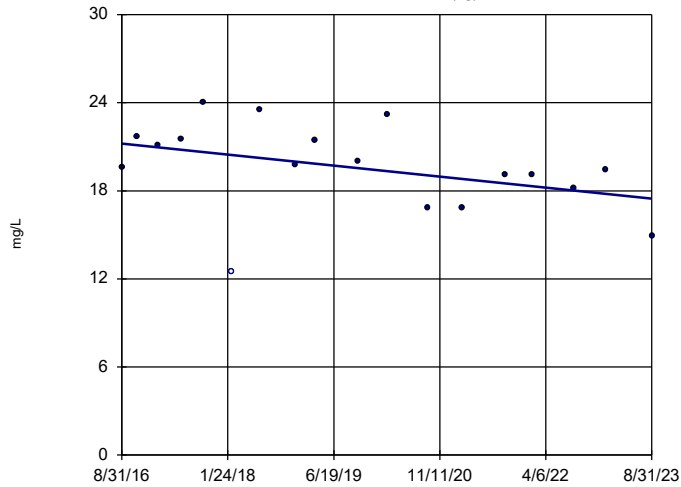
n = 18
 Slope = 0.103
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)

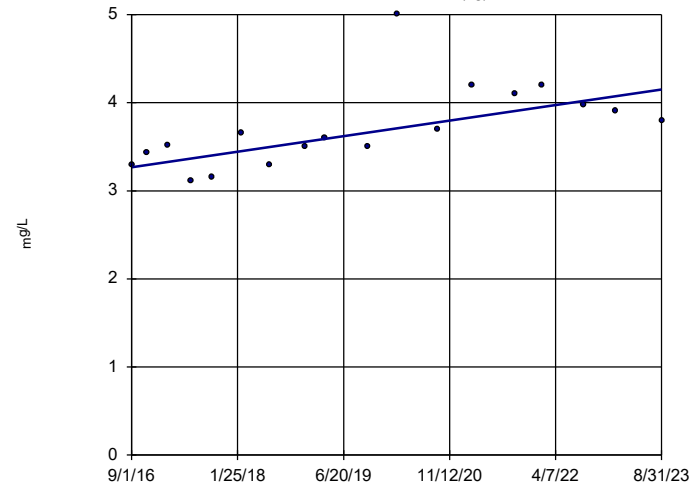


n = 18
 Slope = -0.5359
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

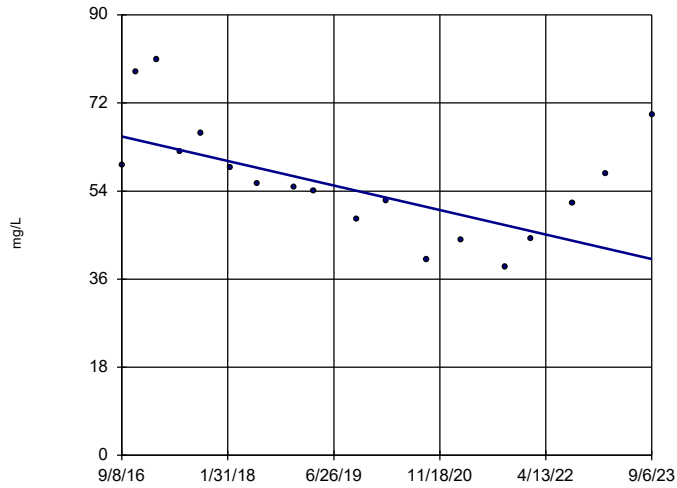


n = 18
 Slope = 0.1264
 units per year.
 Mann-Kendall
 statistic = 80
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-25I

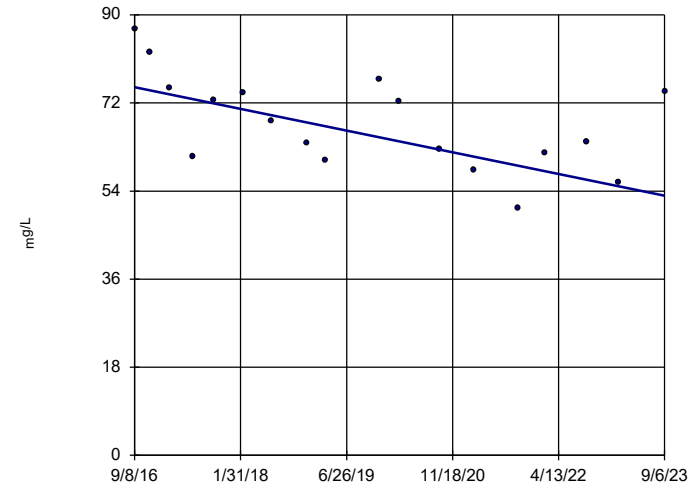


n = 18
 Slope = -3.579
 units per year.
 Mann-Kendall
 statistic = -71
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-27I

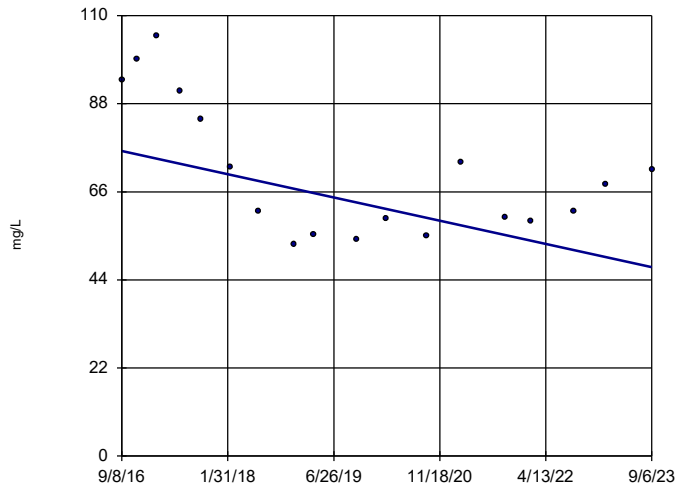


n = 18
 Slope = -3.17
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

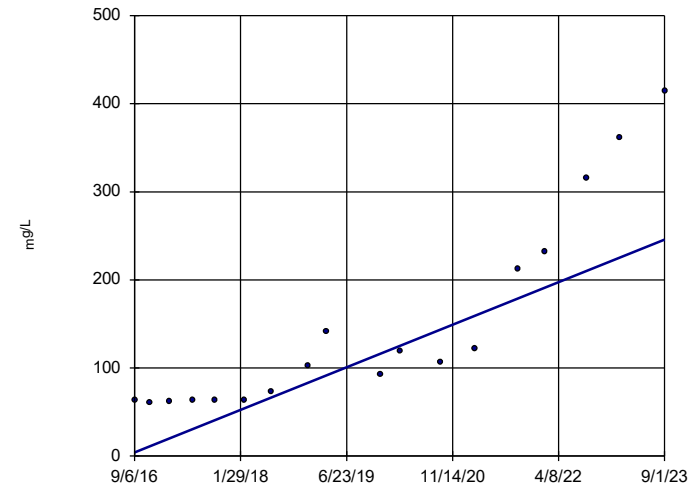


n = 18
 Slope = -4.144
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-30I

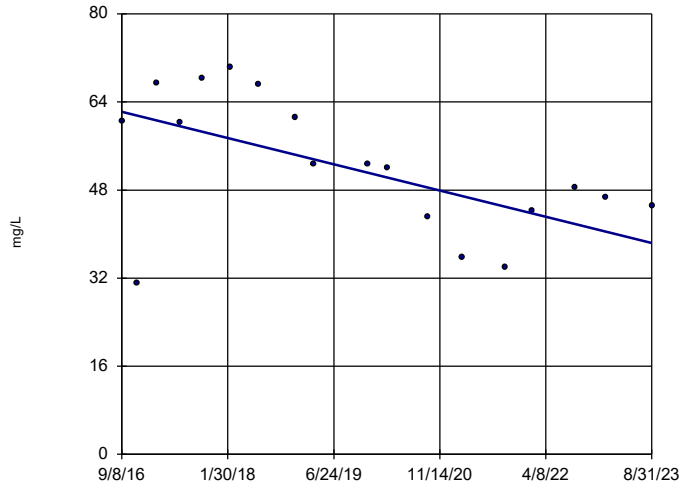


n = 18
 Slope = 34.59
 units per year.
 Mann-Kendall
 statistic = 130
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-32S

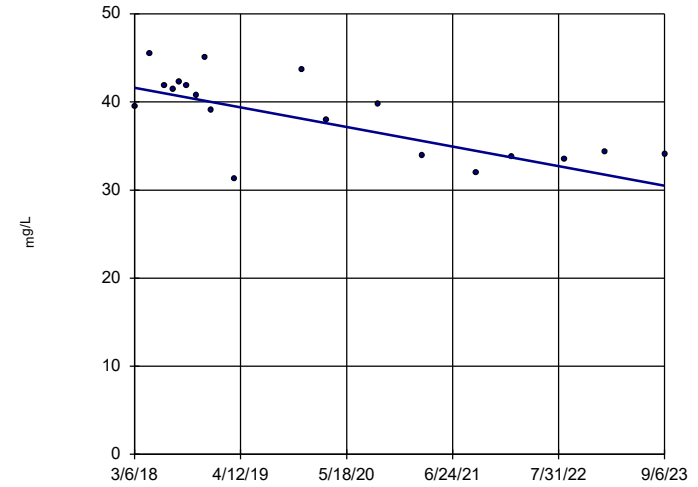


n = 18
 Slope = -3.414
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-45

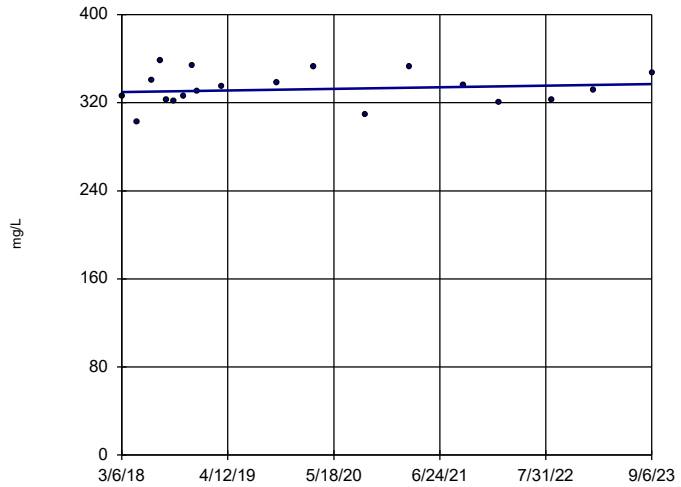


n = 19
 Slope = -2.018
 units per year.
 Mann-Kendall
 statistic = -82
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-47

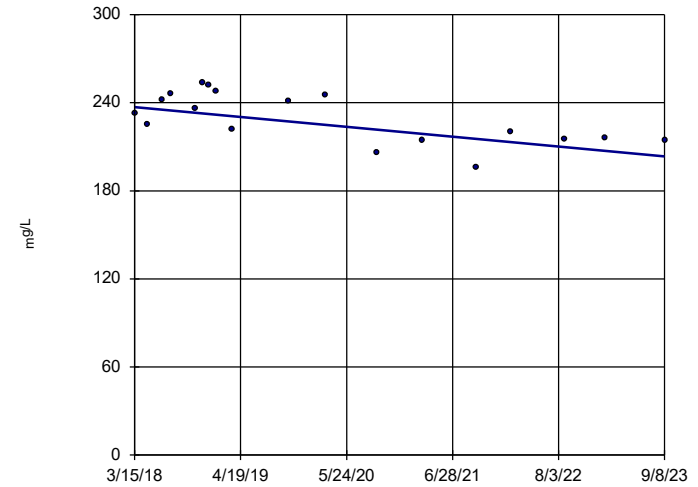


n = 19
 Slope = 1.347
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

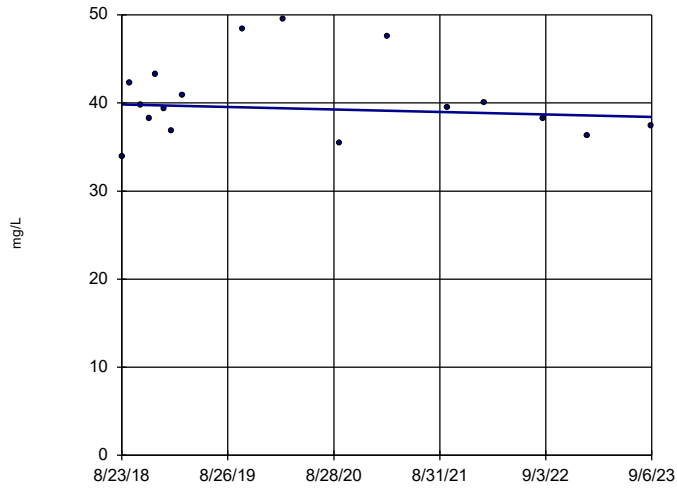


n = 18
 Slope = -6.102
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-52I

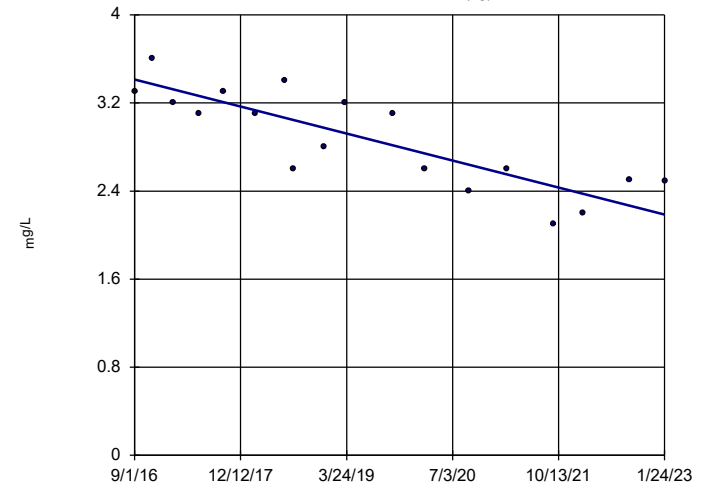


n = 17
 Slope = -0.2829
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

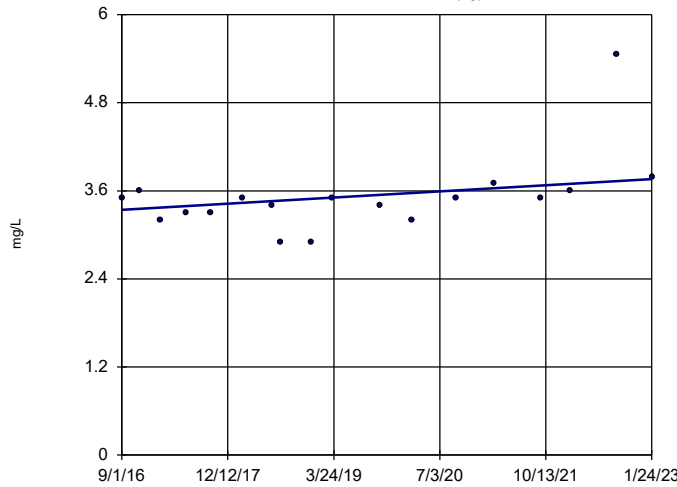


n = 18
 Slope = -0.1919
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

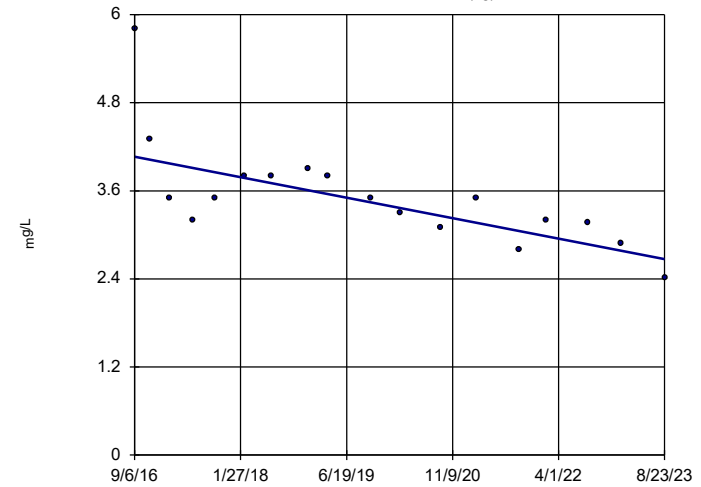


n = 18
 Slope = 0.06545
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

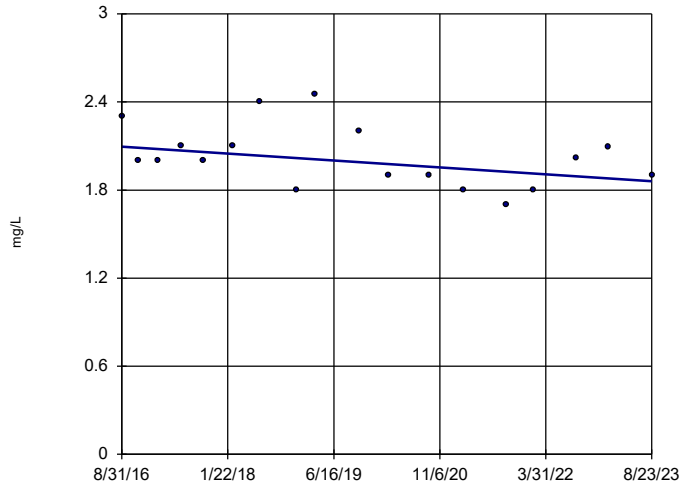


n = 18
 Slope = -0.2007
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

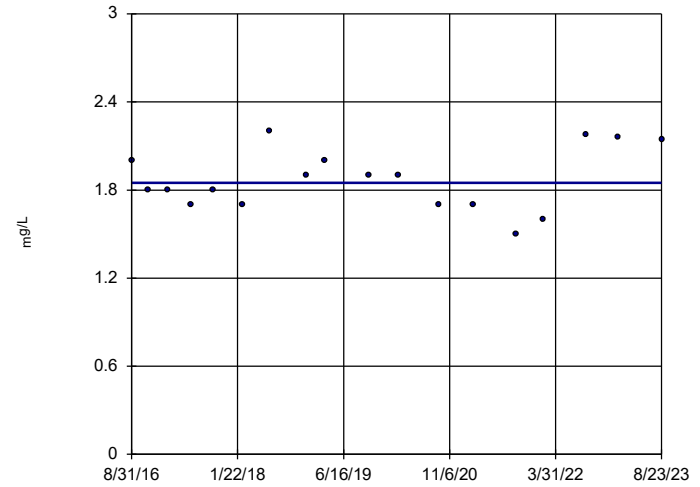


n = 18
 Slope = -0.03364
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

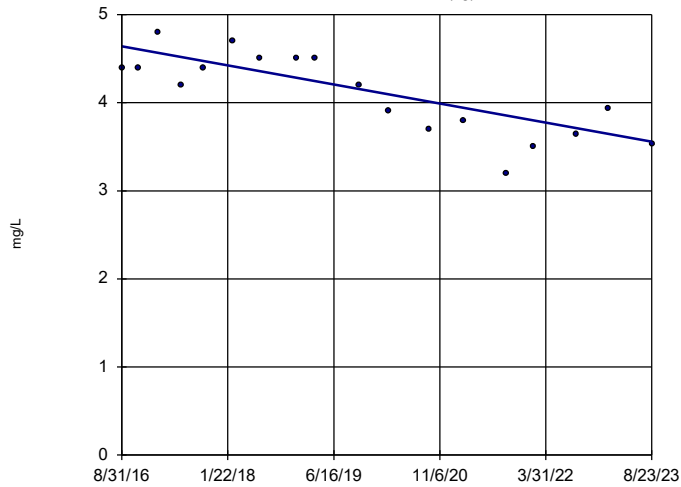


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

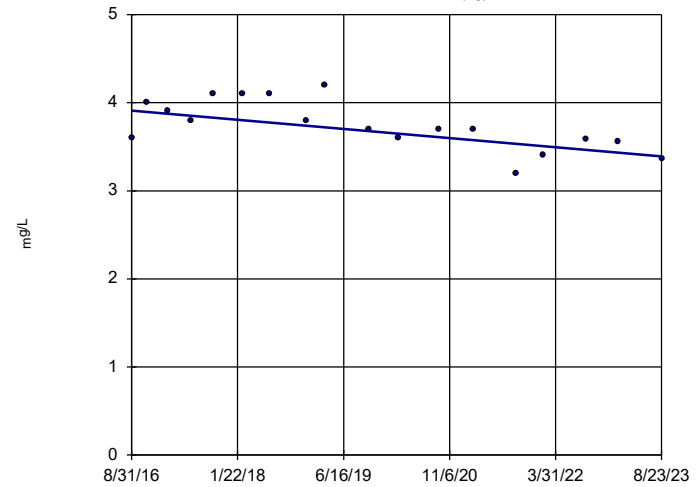


n = 18
 Slope = -0.1548
 units per year.
 Mann-Kendall
 statistic = -84
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

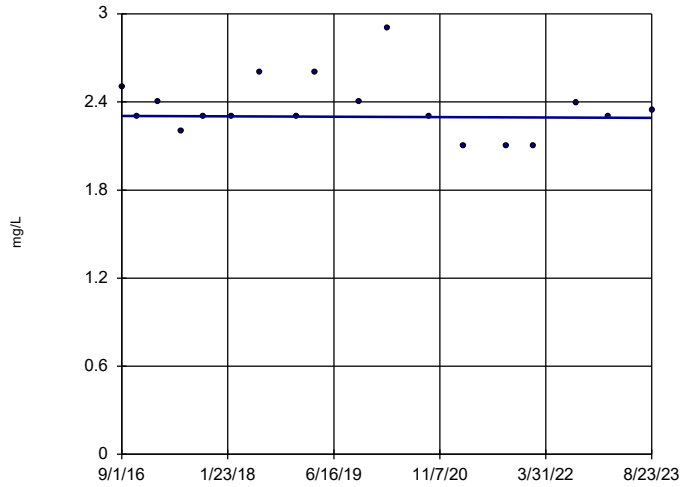


n = 18
 Slope = -0.07449
 units per year.
 Mann-Kendall
 statistic = -75
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

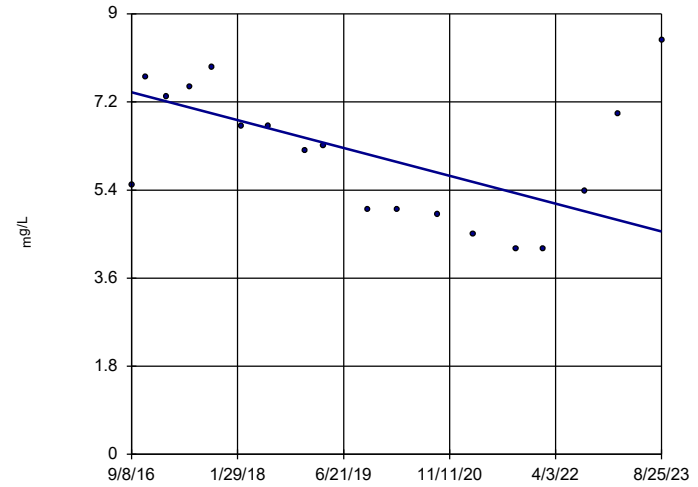


n = 18
 Slope = -0.001816
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-25I

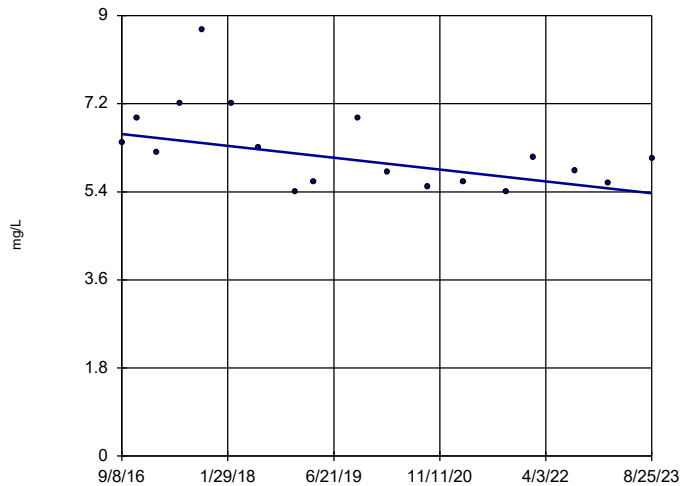


n = 18
 Slope = -0.409
 units per year.
 Mann-Kendall
 statistic = -54
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

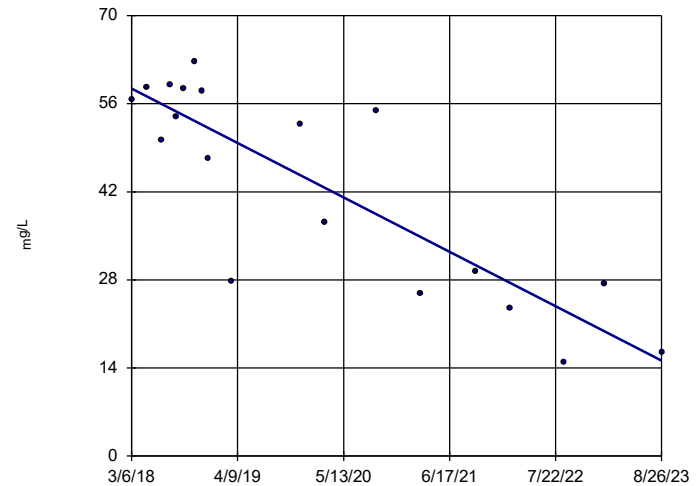


n = 18
 Slope = -0.1739
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-45

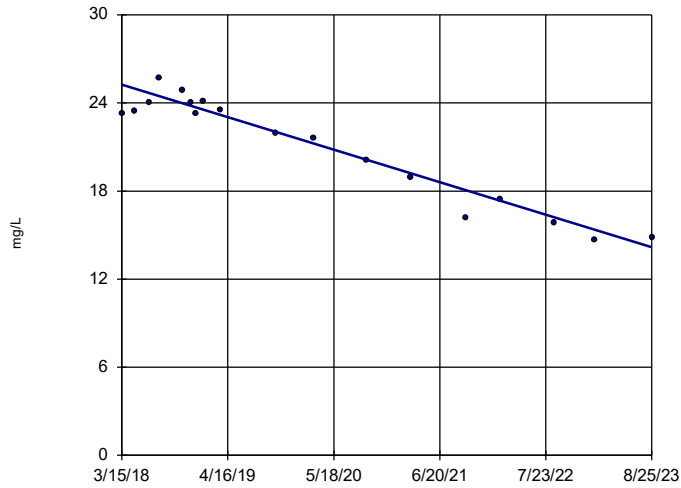


n = 19
 Slope = -7.89
 units per year.
 Mann-Kendall
 statistic = -105
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

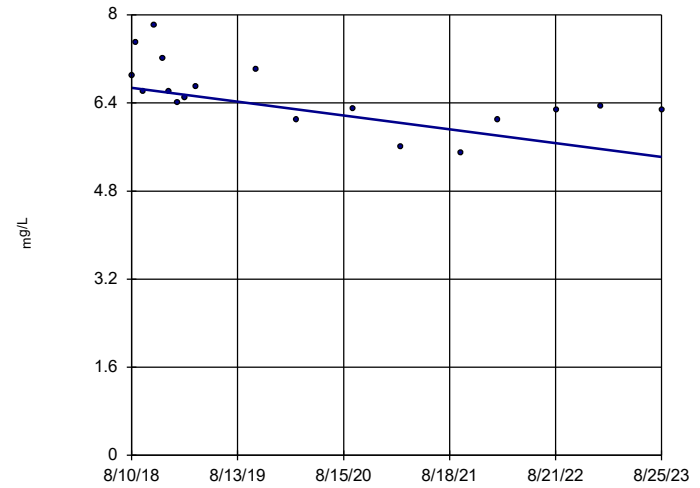


n = 18
 Slope = -2.03
 units per year.
 Mann-Kendall
 statistic = -109
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-52I

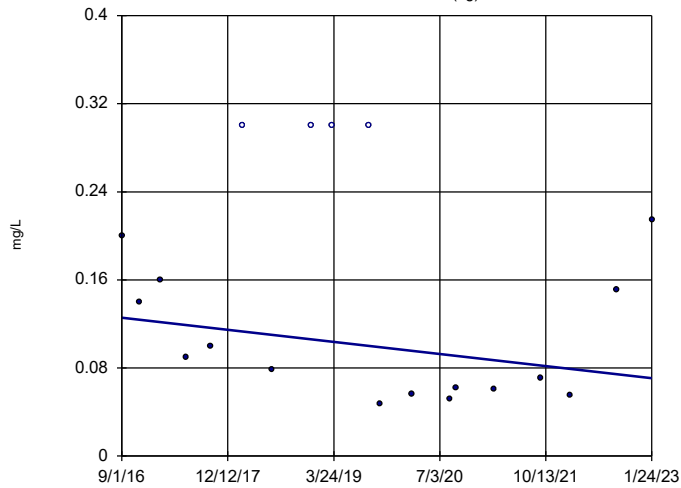


n = 18
 Slope = -0.2483
 units per year.
 Mann-Kendall
 statistic = -81
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

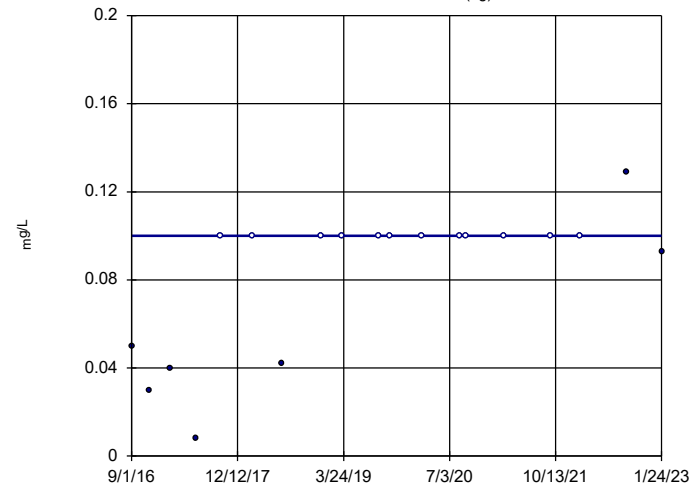


n = 19
 Slope = -0.008595
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

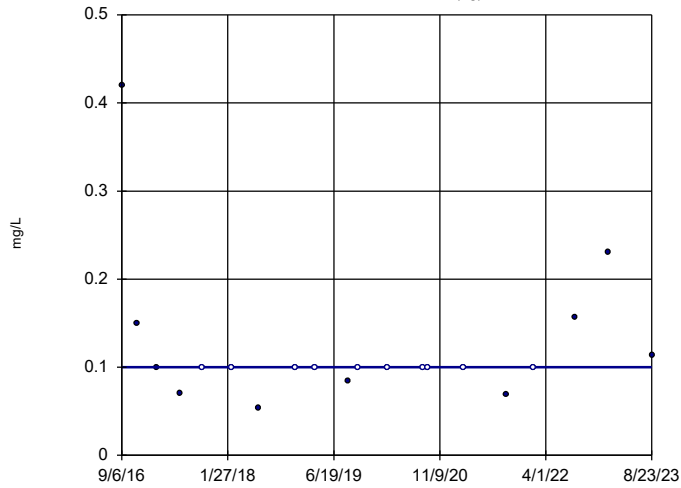


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 63
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

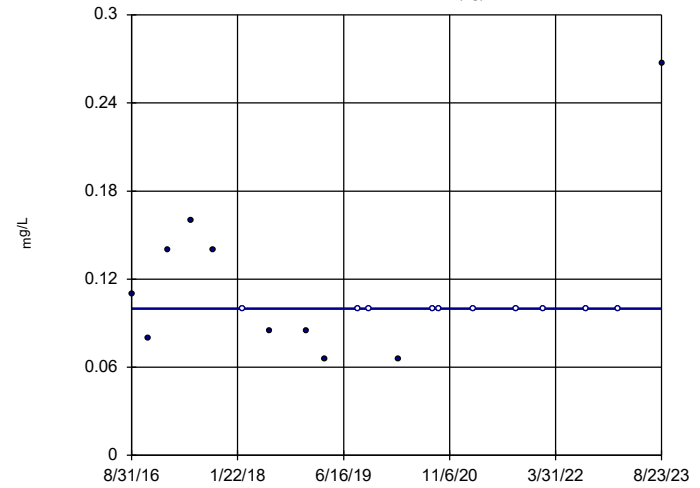


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 17
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

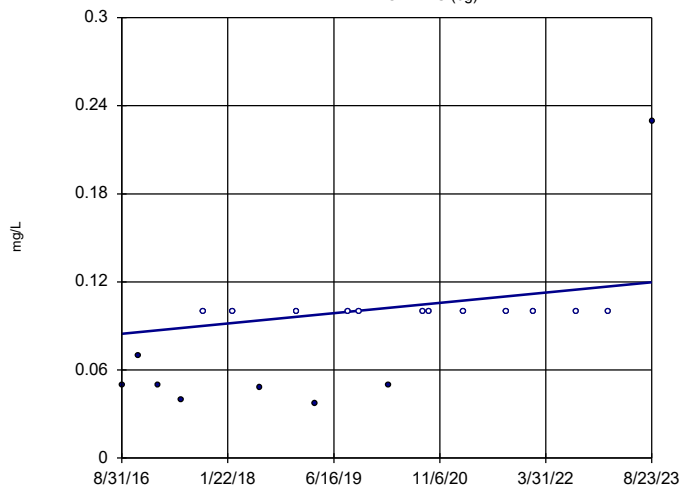


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 3
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

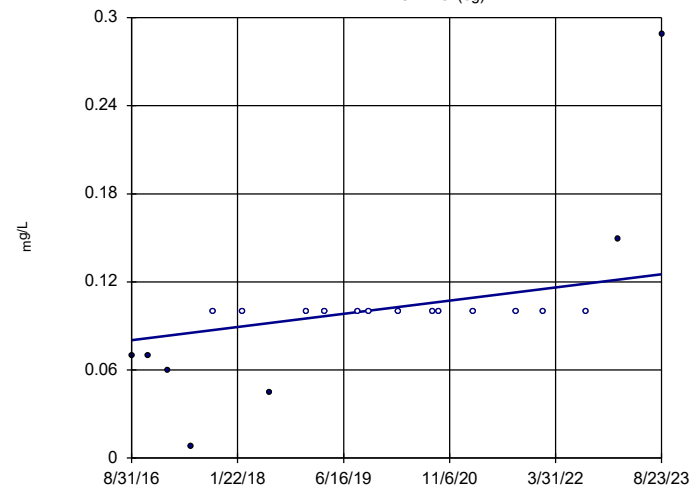


n = 20
Slope = 0.005022
units per year.
Mann-Kendall
statistic = 75
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

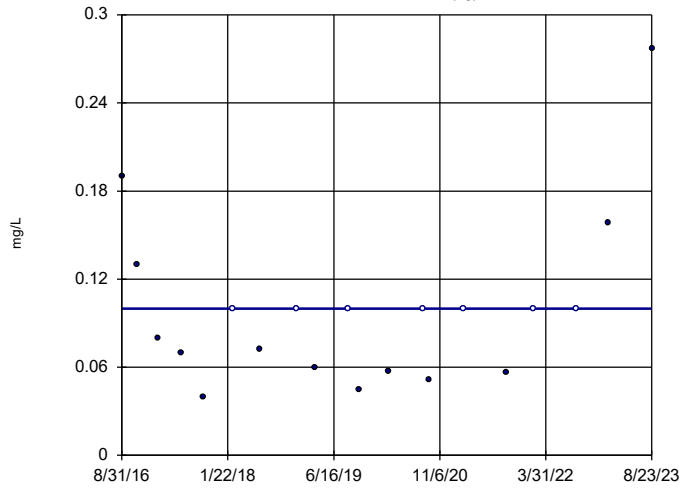


n = 20
Slope = 0.006424
units per year.
Mann-Kendall
statistic = 91
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

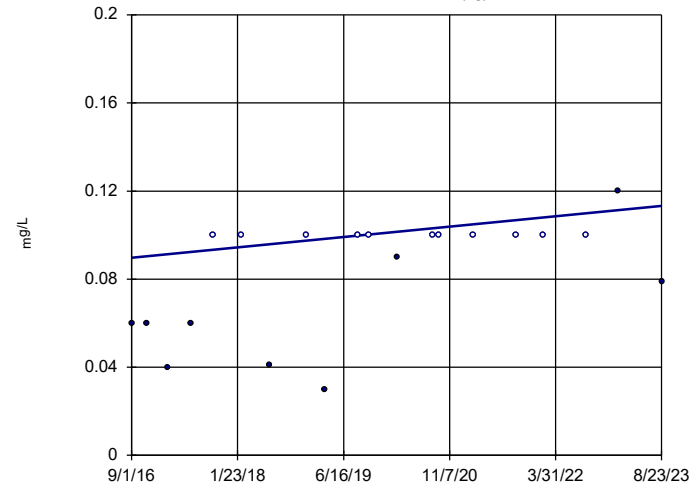


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 15
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

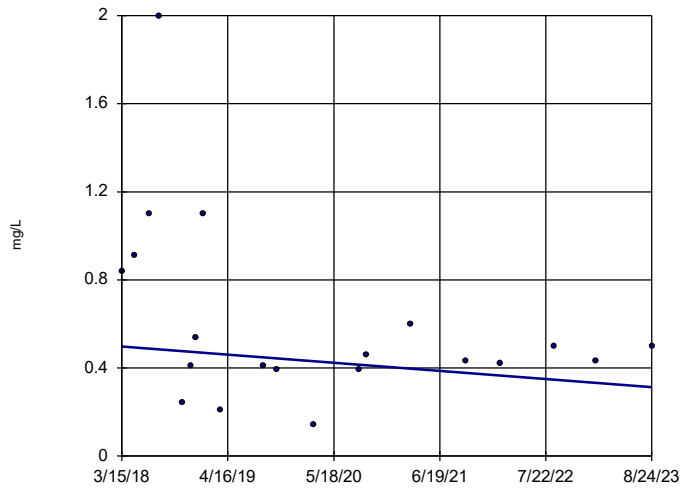


n = 20
Slope = 0.003384
units per year.
Mann-Kendall
statistic = 66
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

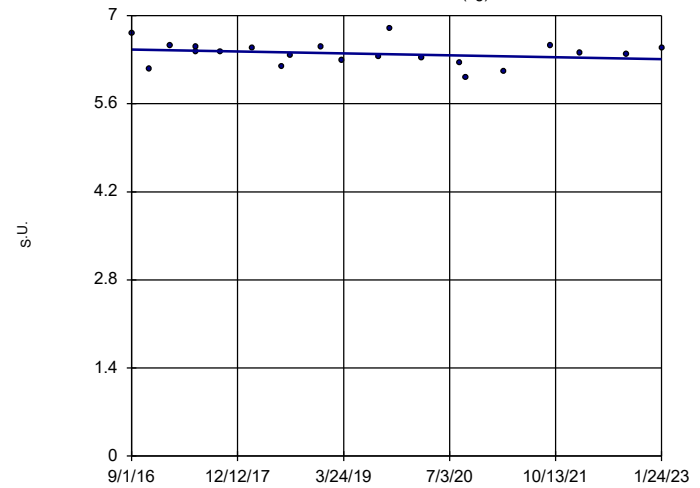


n = 20
Slope = -0.03378
units per year.
Mann-Kendall
statistic = -23
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

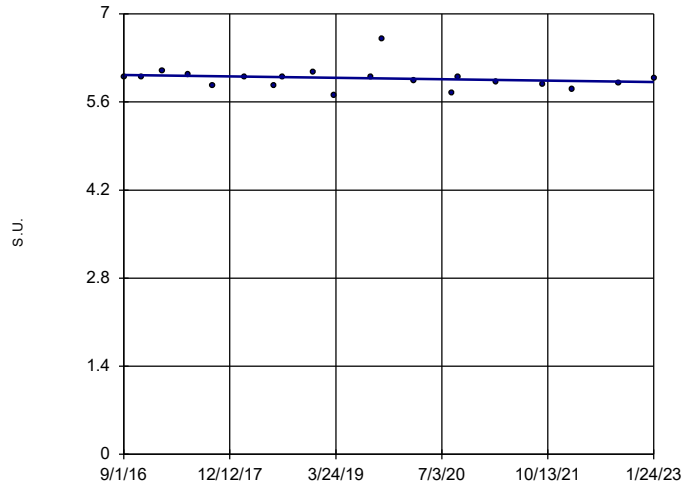


n = 21
Slope = -0.02367
units per year.
Mann-Kendall
statistic = -36
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

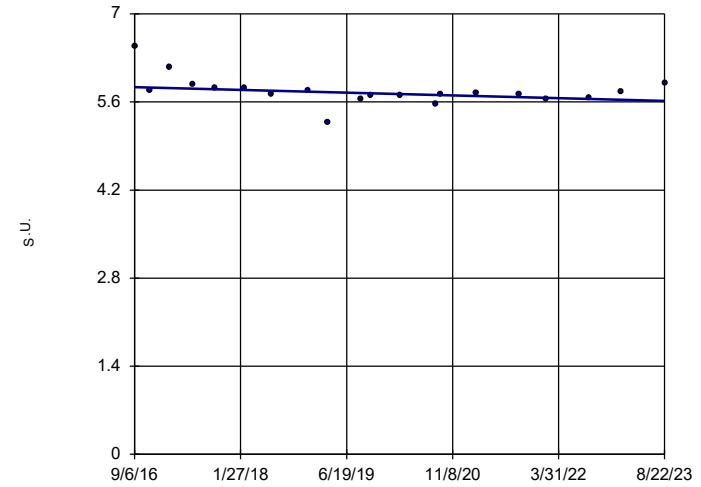


n = 20
 Slope = -0.01755
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

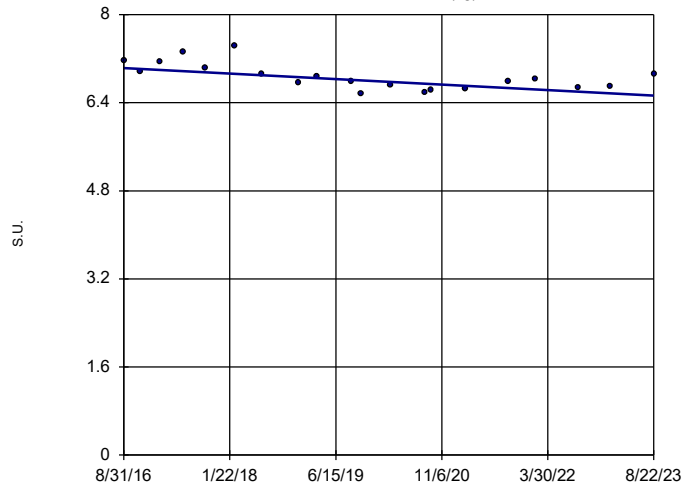


n = 20
 Slope = -0.03095
 units per year.
 Mann-Kendall
 statistic = -60
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

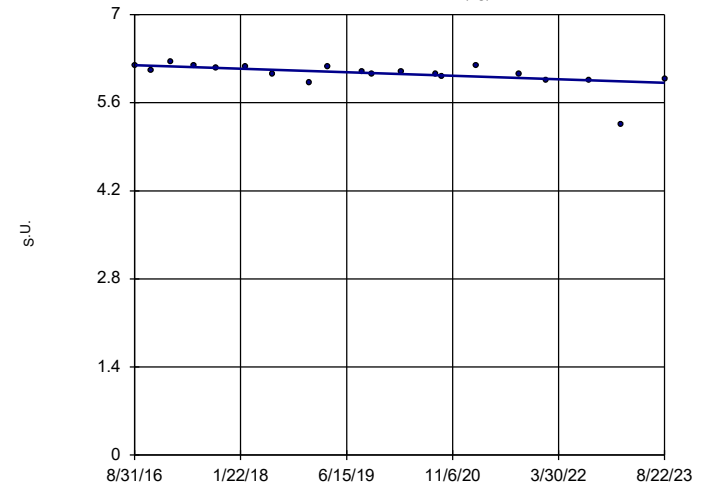


n = 20
 Slope = -0.07157
 units per year.
 Mann-Kendall
 statistic = -82
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

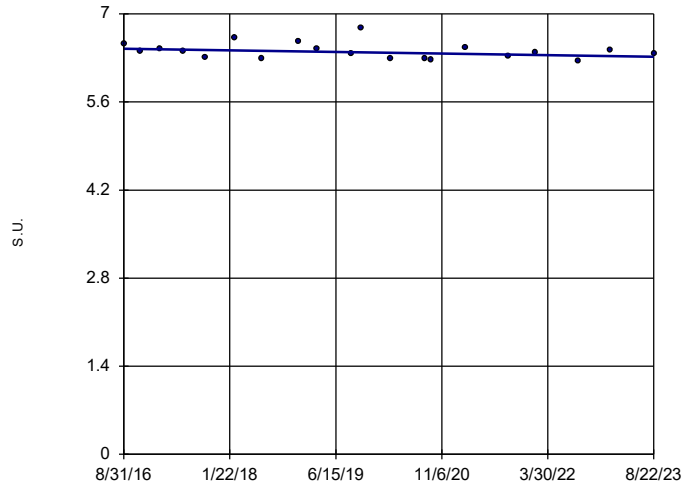


n = 20
 Slope = -0.03999
 units per year.
 Mann-Kendall
 statistic = -100
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

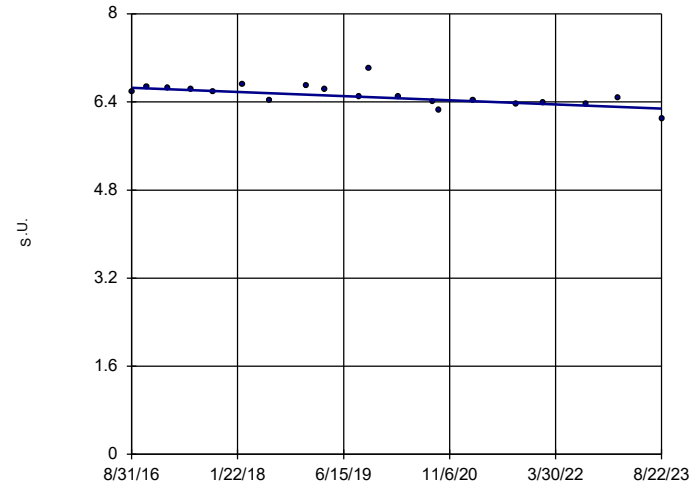


n = 20
 Slope = -0.01794
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

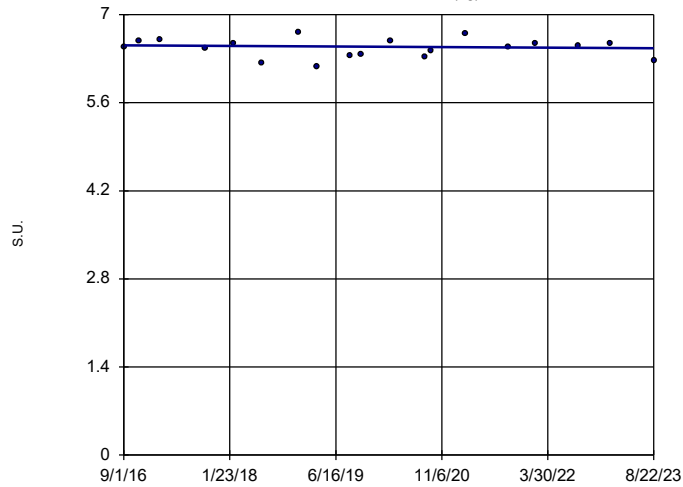


n = 20
 Slope = -0.05423
 units per year.
 Mann-Kendall
 statistic = -104
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

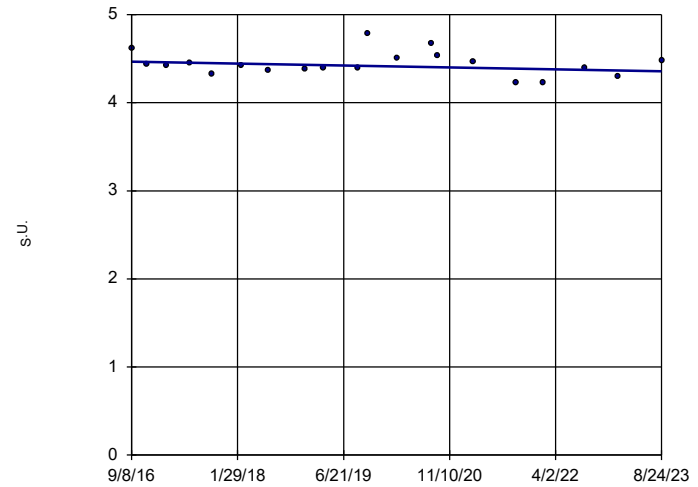


n = 19
 Slope = -0.006594
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

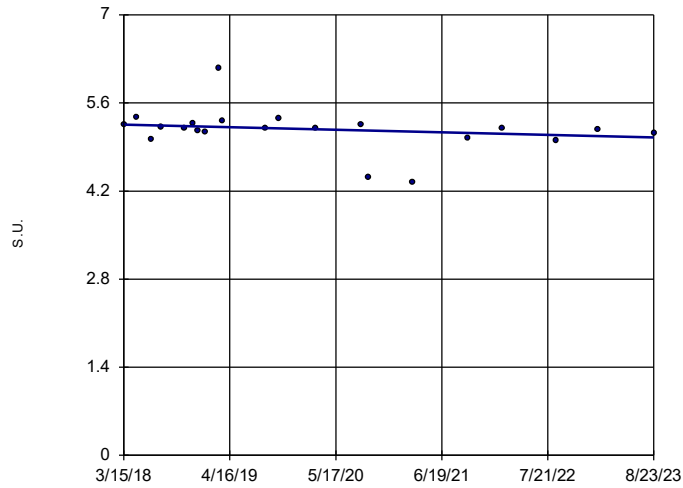


n = 20
 Slope = -0.01574
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

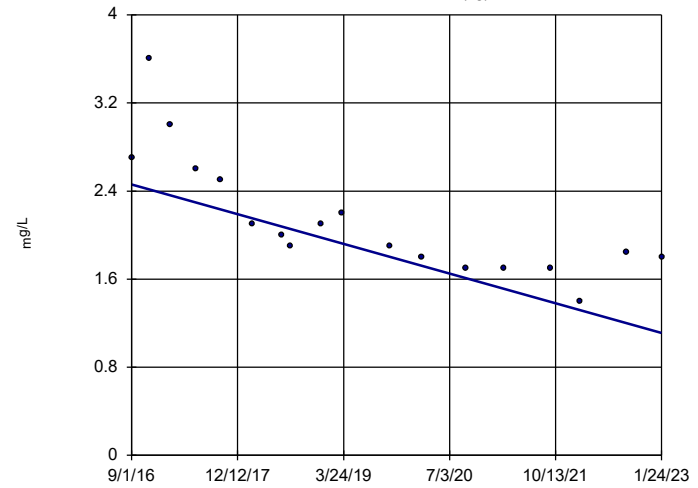


n = 21
 Slope = -0.03717
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)



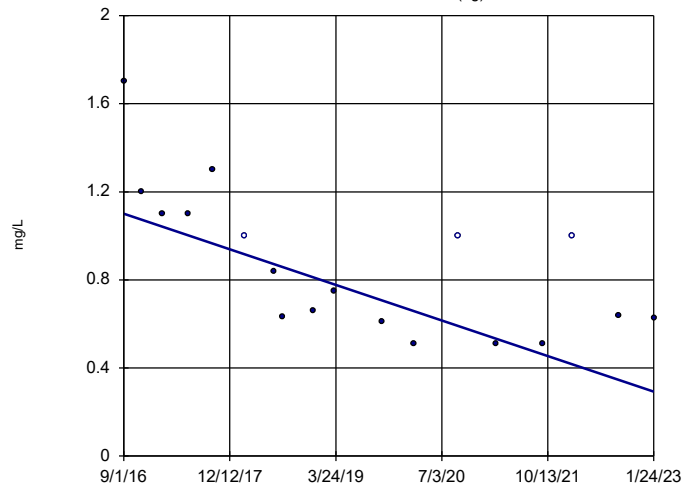
n = 18
 Slope = -0.2108
 units per year.
 Mann-Kendall
 statistic = -113
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)

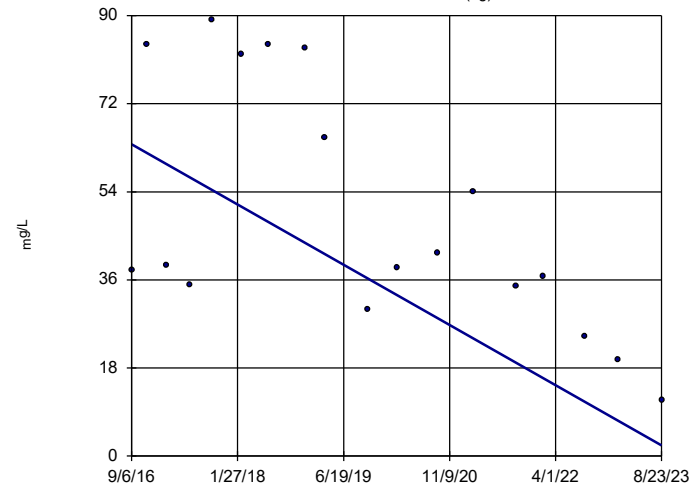


n = 18
 Slope = -0.126
 units per year.
 Mann-Kendall
 statistic = -88
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

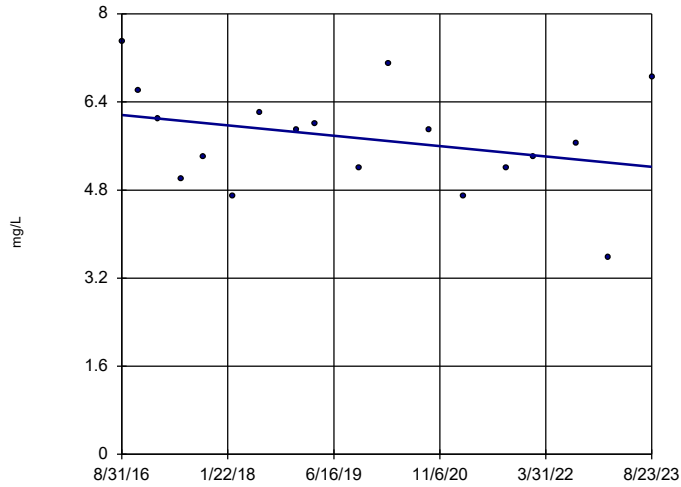


n = 18
 Slope = -8.828
 units per year.
 Mann-Kendall
 statistic = -75
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

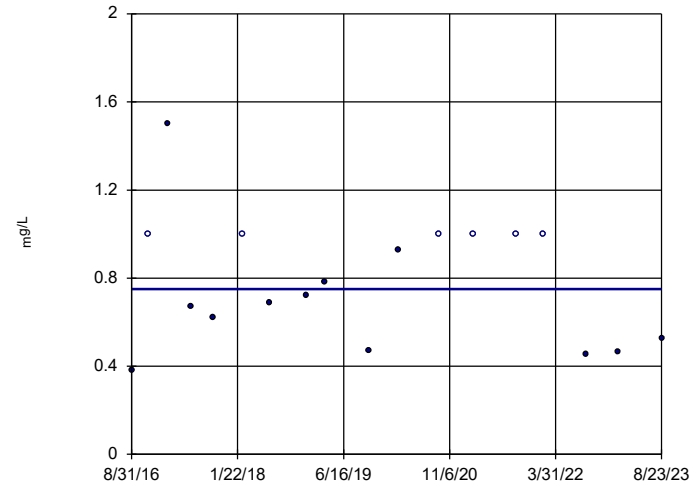


n = 18
 Slope = -0.1349
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

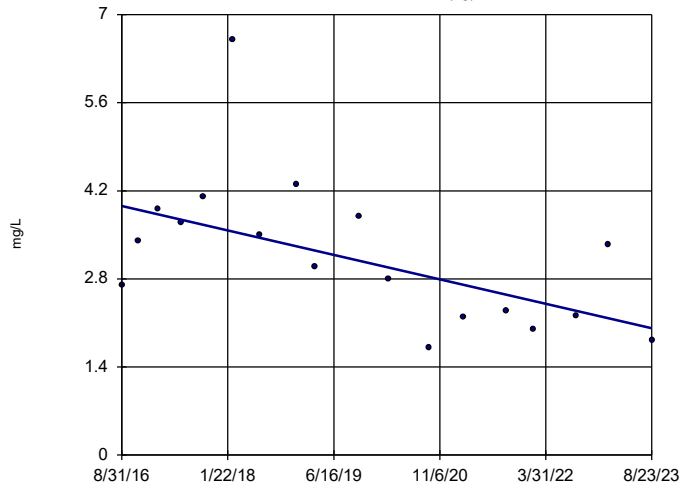


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

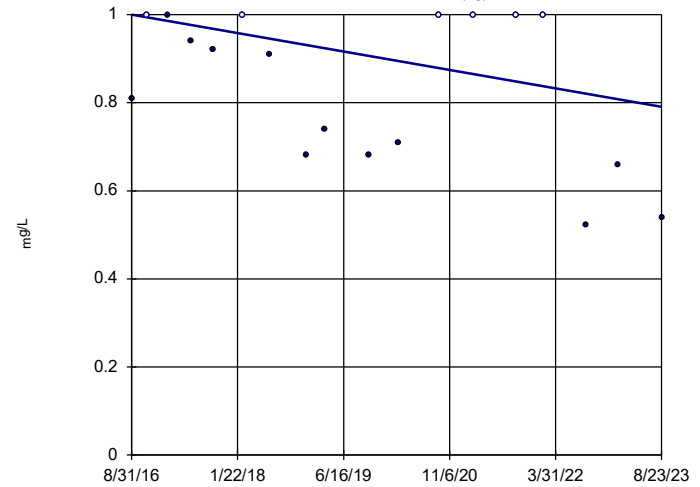


n = 18
 Slope = -0.2786
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

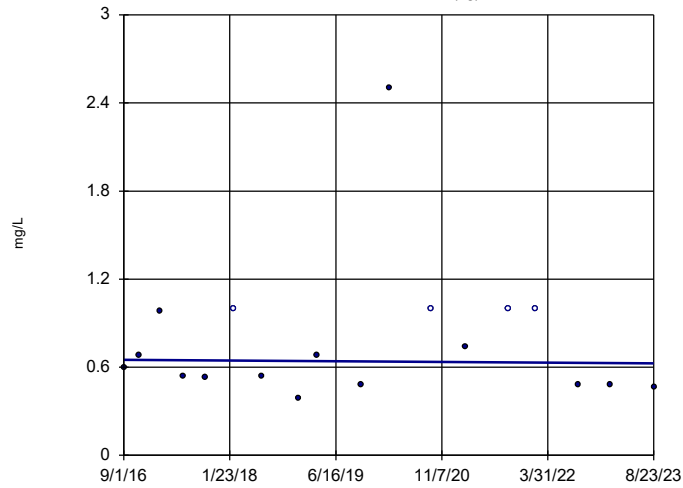


n = 18
 Slope = -0.0299
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

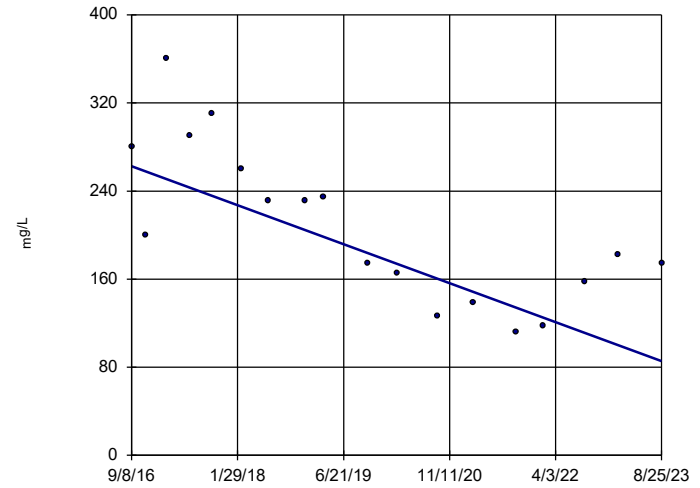


n = 18
Slope = -0.00337
units per year.
Mann-Kendall
statistic = -11
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-25I

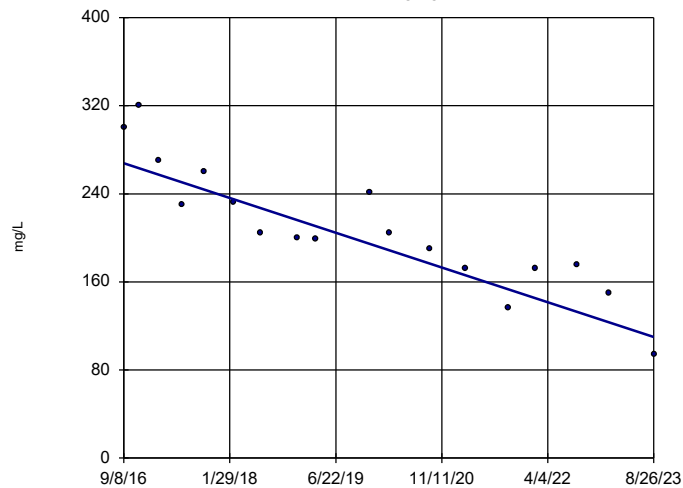


n = 18
Slope = -25.4
units per year.
Mann-Kendall
statistic = -87
critical = -68
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-27I

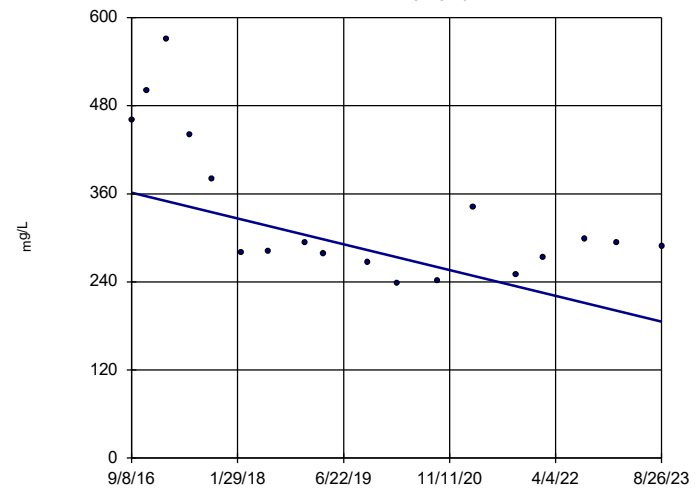


n = 18
Slope = -22.62
units per year.
Mann-Kendall
statistic = -121
critical = -68
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

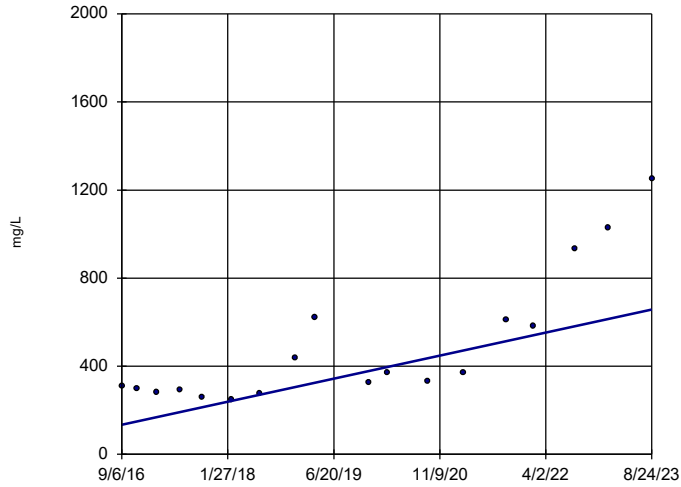


n = 18
Slope = -25.24
units per year.
Mann-Kendall
statistic = -62
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

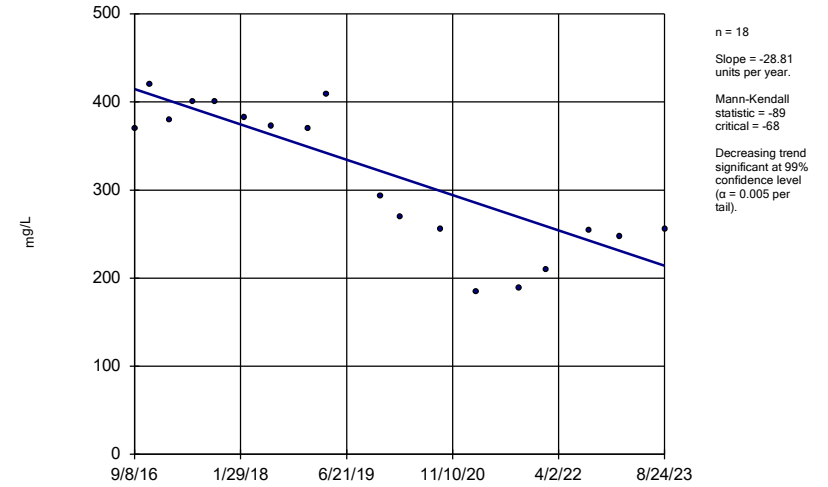
BRGWC-30I



Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

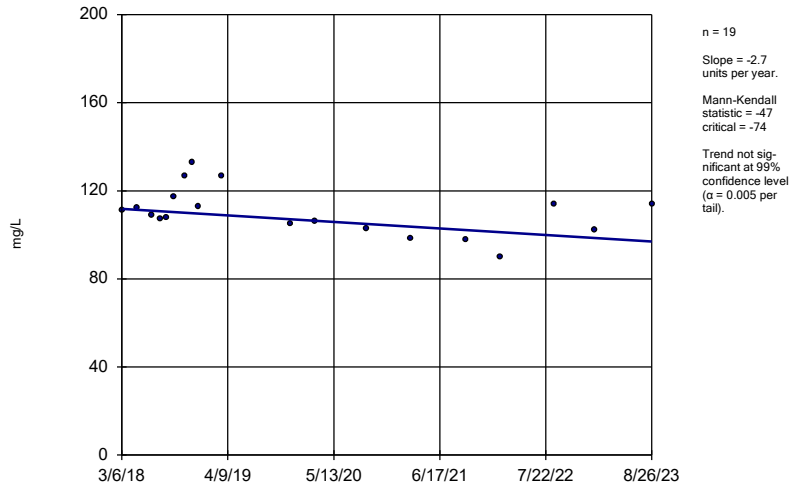
BRGWC-32S



Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

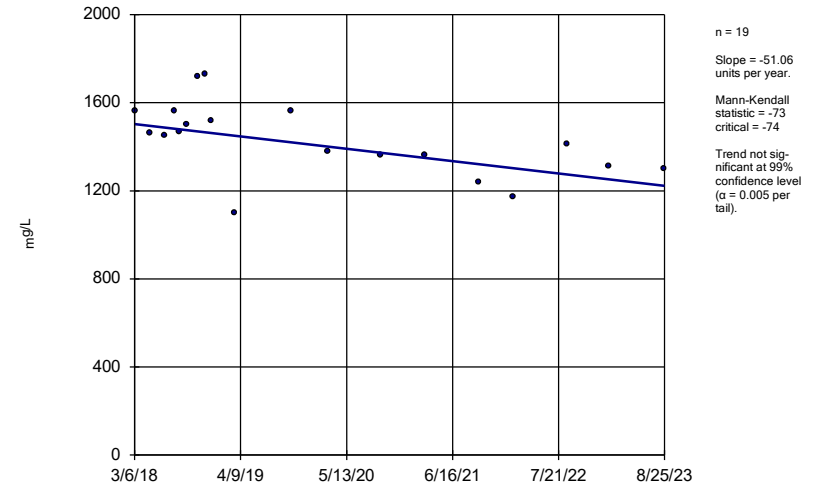
BRGWC-45



Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

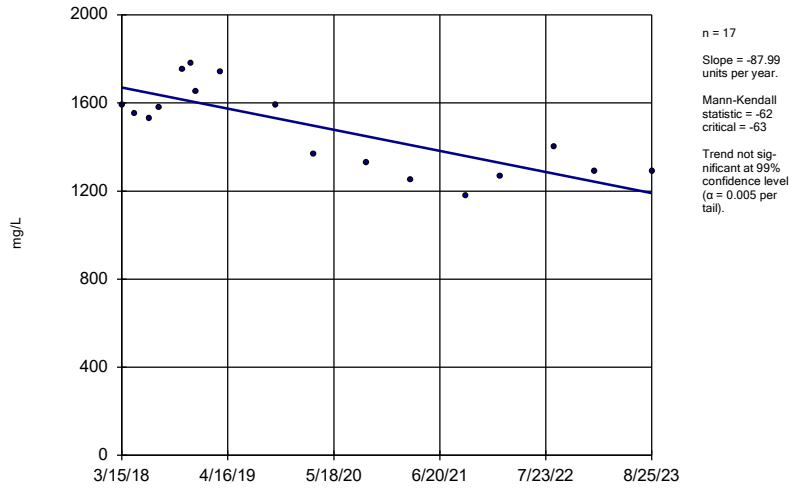
BRGWC-47



Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

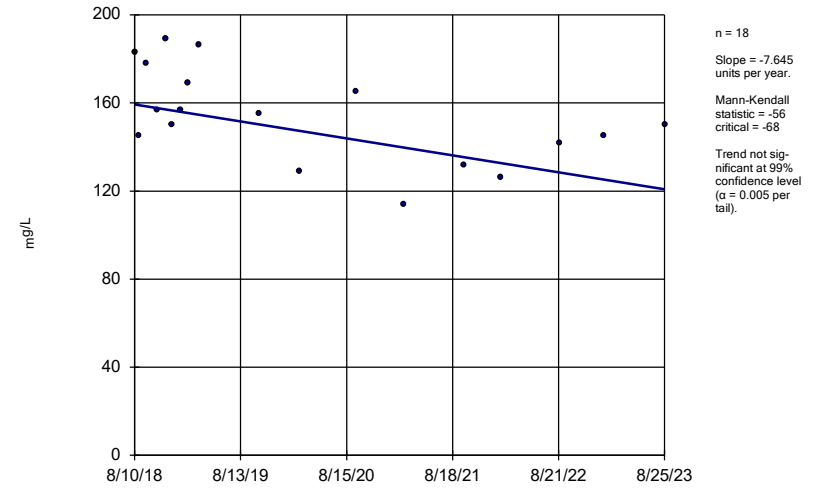
BRGWC-50



Constituent: Sulfate Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

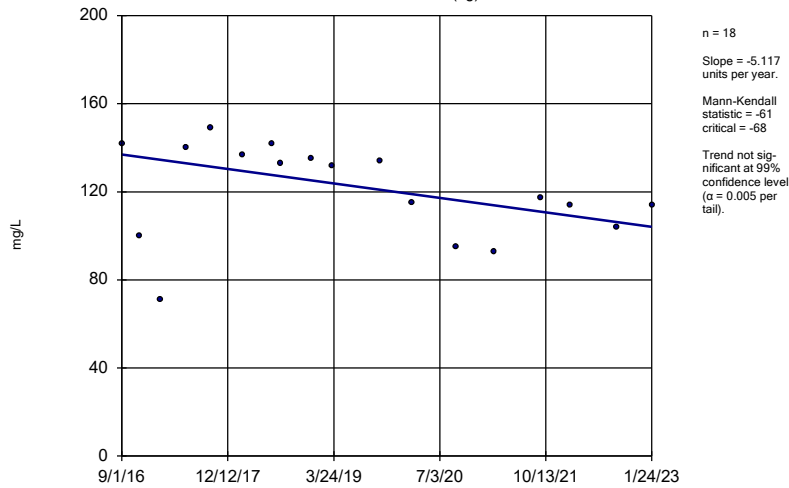
BRGWC-52I



Constituent: Sulfate Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

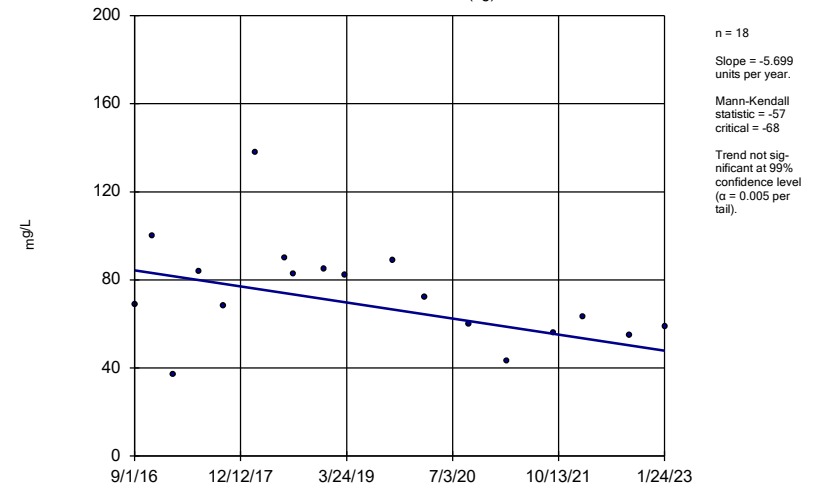
BRGWA-12I (bg)



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

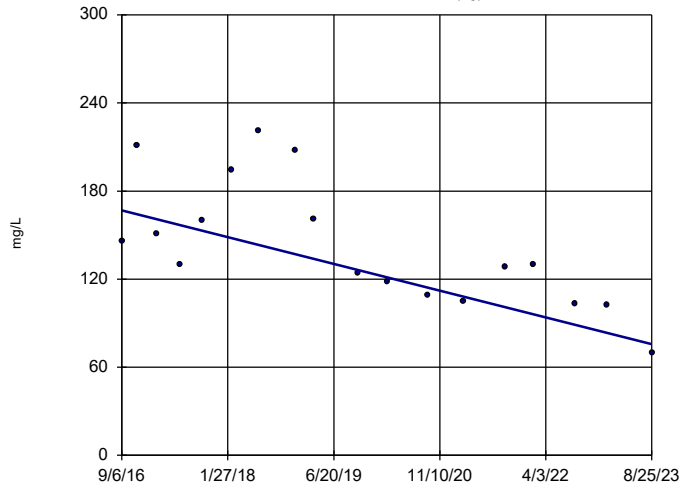
BRGWA-12S (bg)



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

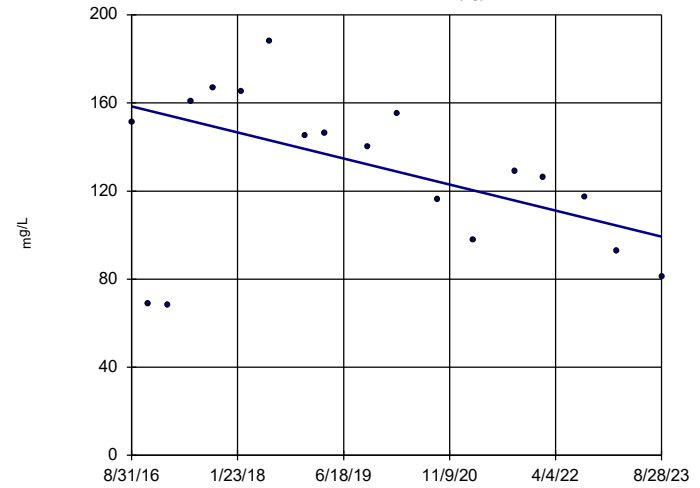


n = 18
 Slope = -13.07
 units per year.
 Mann-Kendall
 statistic = -86
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)



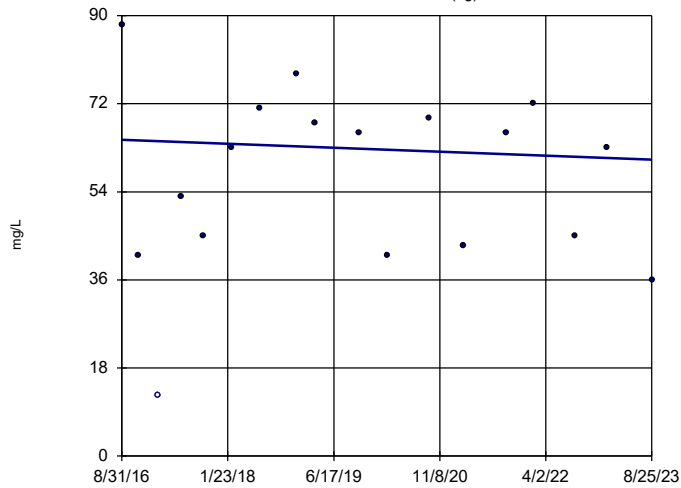
n = 18
 Slope = -8.462
 units per year.
 Mann-Kendall
 statistic = -53
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



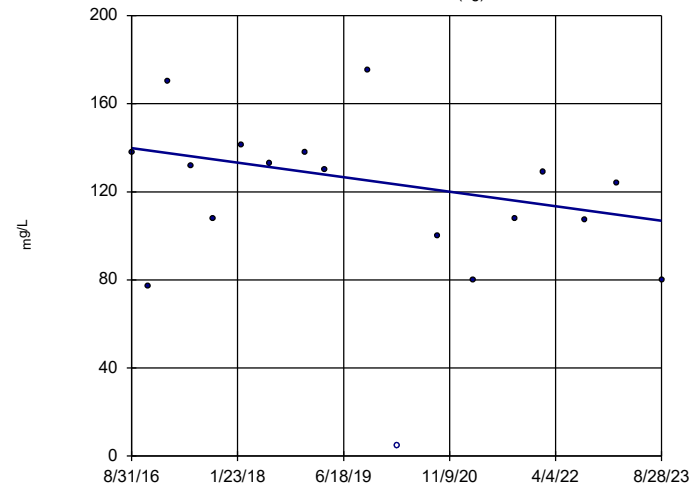
n = 18
 Slope = -0.5826
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)

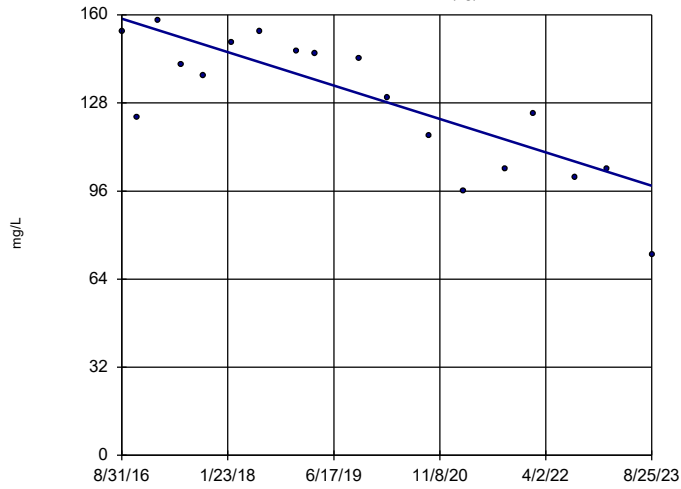


n = 18
 Slope = -4.727
 units per year.
 Mann-Kendall
 statistic = -44
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

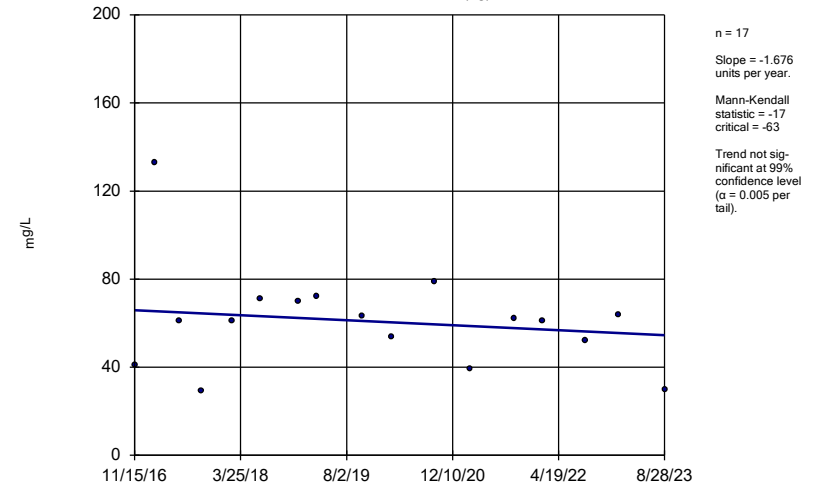
BRGWA-5S (bg)



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

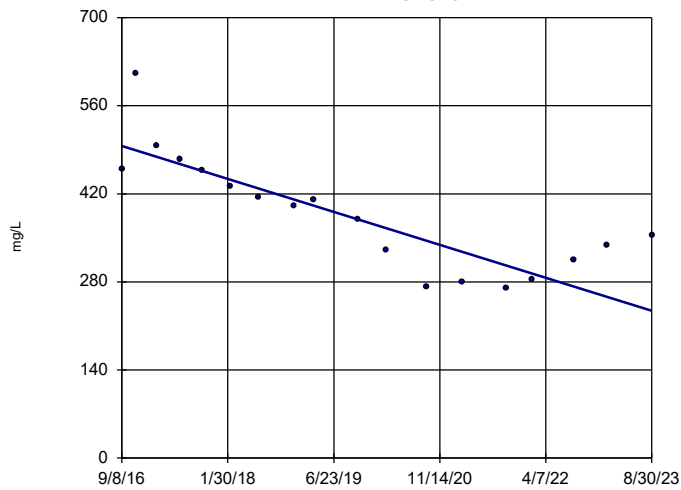
BRGWA-6S (bg)



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

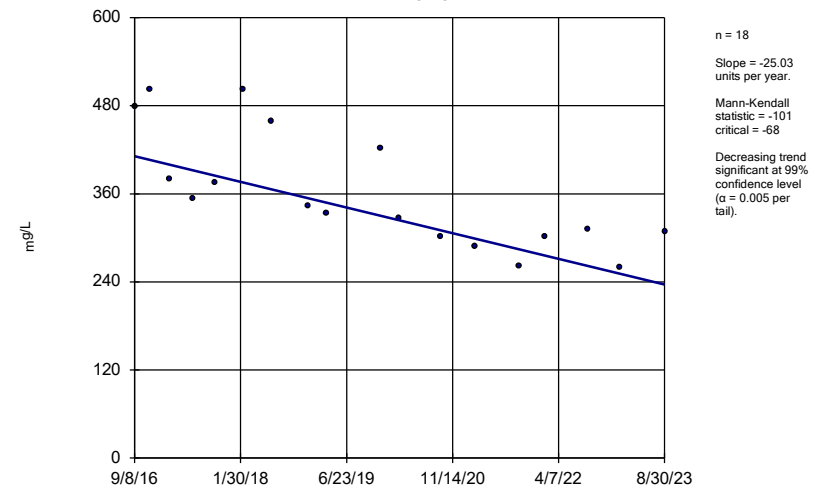
BRGWC-25I



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

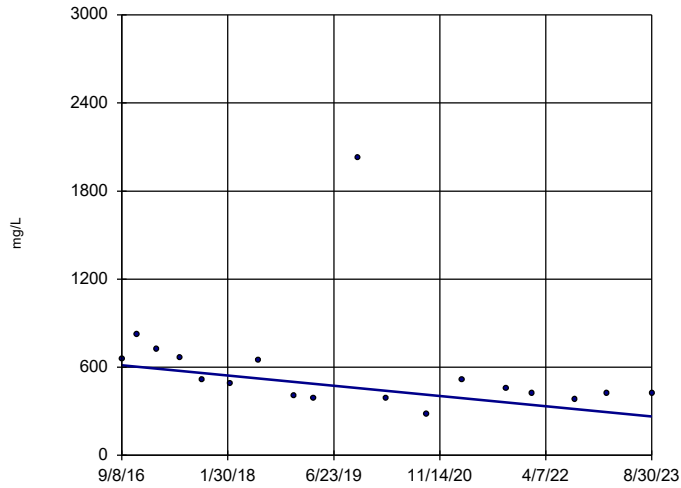
BRGWC-27I



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-29I

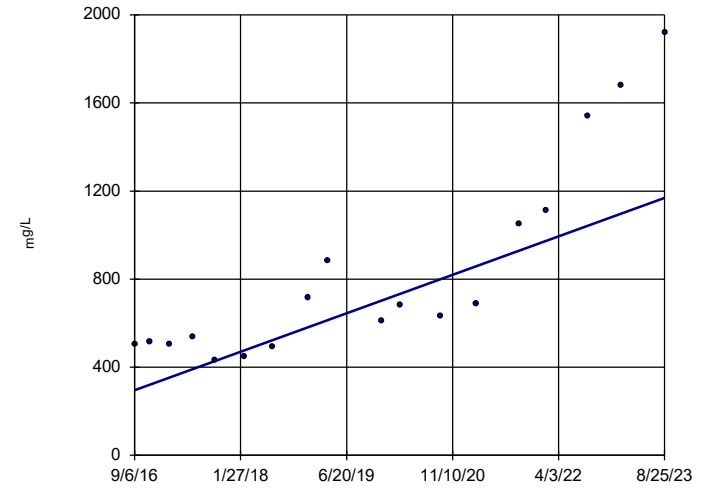


n = 18
 Slope = -49.93
 units per year.
 Mann-Kendall
 statistic = -75
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-30I

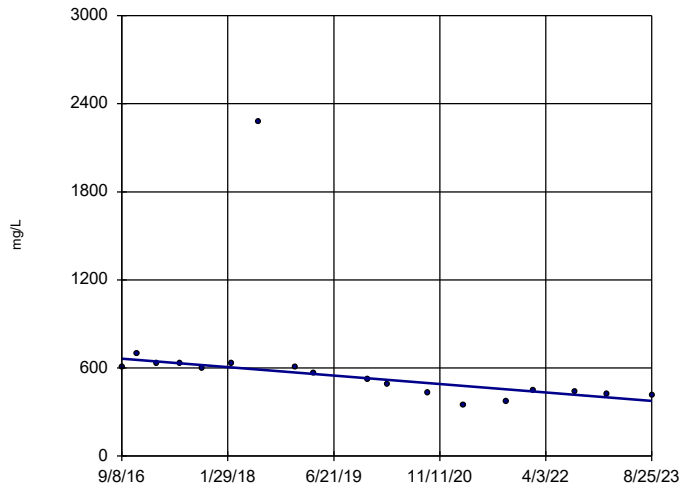


n = 18
 Slope = 125.3
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-32S

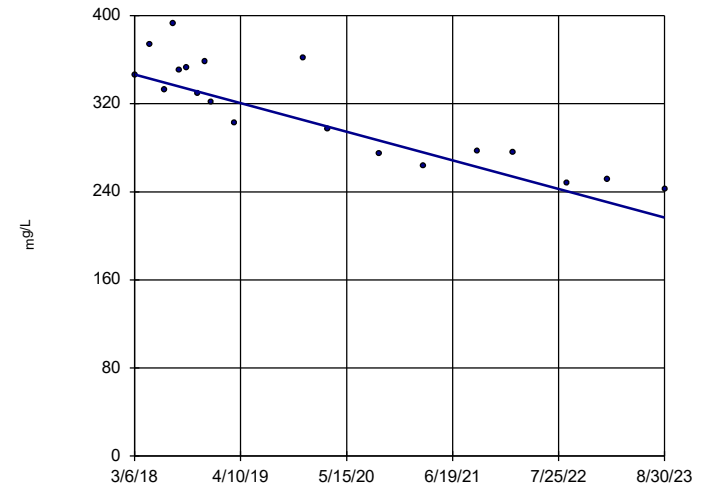


n = 18
 Slope = -41.37
 units per year.
 Mann-Kendall
 statistic = -106
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP

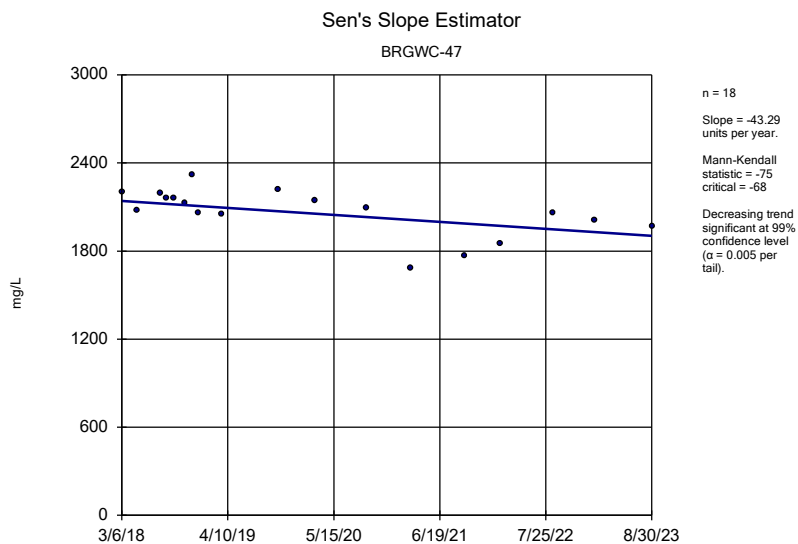
Sen's Slope Estimator

BRGWC-45

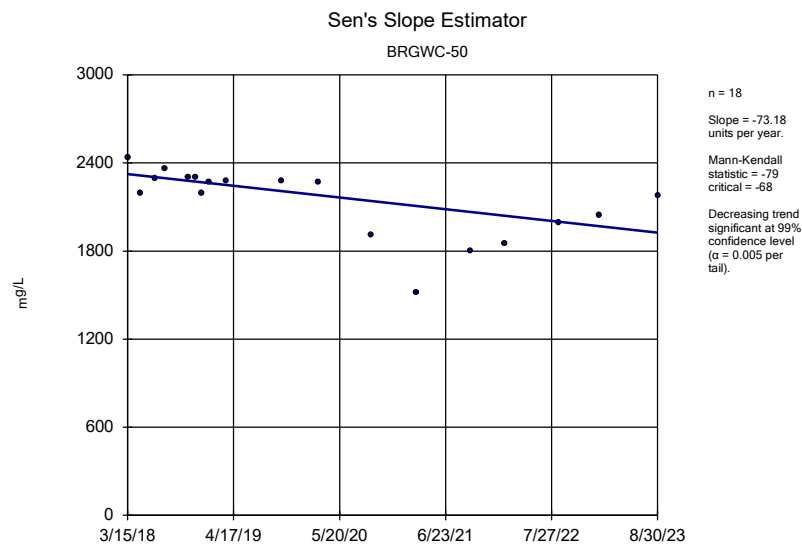


n = 19
 Slope = -23.69
 units per year.
 Mann-Kendall
 statistic = -117
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

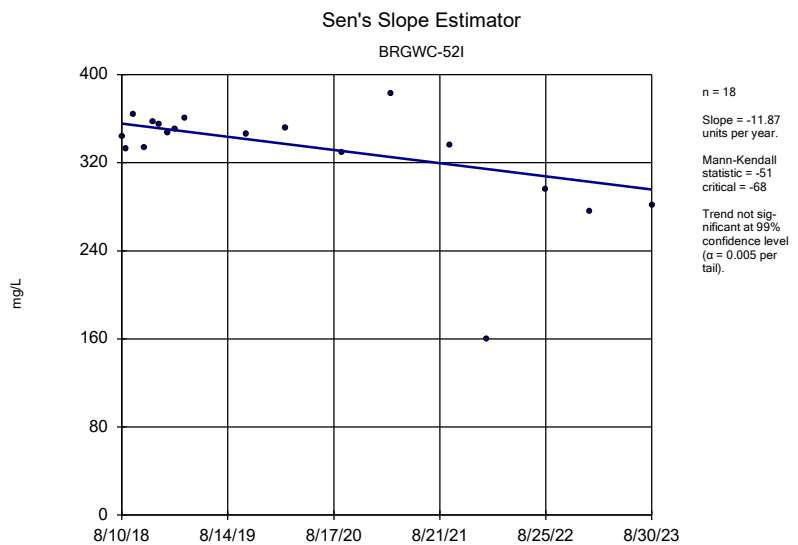
Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
 Plant Branch Data: Plant Branch AP



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/24/2023, 2:23 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0245	n/a	n/a	n/a	150	83.33	n/a	n/a	0.0004556	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	150	76.67	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	150	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	152	98.68	n/a	n/a	0.0004111	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	150	22	n/a	n/a	0.0004556	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	150	55.33	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.171	n/a	n/a	n/a	150	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	158	50	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.002	n/a	n/a	n/a	150	88	n/a	n/a	0.0004556	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	150	41.33	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	134	88.81	n/a	n/a	0.001035	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	147	76.19	n/a	n/a	0.0005313	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	150	92	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)

FIGURE G.

PLANT BRANCH POND BCD GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.17	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method	
Beryllium (mg/L)	BRGWC-50	0.008516	0.005195	0.004	Yes	9	0.006856	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-58I	0.03983	0.02257	0.004	Yes	5	0.0312	0.005152	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-60I	0.07905	0.06195	0.004	Yes	5	0.0705	0.005101	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-50	0.038	0.0079	0.005	Yes	19	0.02552	0.0242	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-60I	0.01719	0.01445	0.005	Yes	5	0.01582	0.0008198	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-50	1.42	1.35	0.014	Yes	19	1.392	0.0633	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-51I	0.0259	0.018	0.014	Yes	12	0.02274	0.006306	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-58I	0.5929	0.3659	0.014	Yes	5	0.4794	0.06773	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-60I	3.827	3.333	0.014	Yes	5	3.58	0.1471	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-61I	0.7712	0.382	0.014	Yes	5	0.5766	0.1162	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-60I	0.114	0.0936	0.089	Yes	5	0.1013	0.007636	0	None	No	0.031	NP (selected)
Selenium (mg/L)	BRGWC-32S	0.1777	0.08972	0.05	Yes	11	0.1337	0.0528	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0016	0.006	No	20	0.002502	0.0008619	65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	20	0.002868	0.0005926	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.003	0.00092	0.006	No	19	0.002624	0.0008973	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	19	0.002642	0.0008549	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.003	0.00056	0.006	No	6	0.002593	0.0009961	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51D	0.003	0.0013	0.006	No	6	0.002717	0.000694	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51I	0.003	0.0012	0.006	No	10	0.002469	0.0008816	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	19	0.004092	0.001808	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	19	0.004163	0.001669	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0015	0.01	No	19	0.003611	0.001909	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	19	0.004498	0.001251	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	19	0.004765	0.001025	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0021	0.01	No	20	0.003867	0.001817	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002641	0.001266	0.01	No	20	0.002965	0.001753	30	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.005	0.00236	0.01	No	19	0.004077	0.001646	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.005	0.0026	0.01	No	19	0.003798	0.001452	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-44	0.005	0.00221	0.01	No	7	0.004459	0.001059	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002982	0.0008455	0.01	No	6	0.002428	0.001481	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.003948	0.001176	0.01	No	6	0.002968	0.001417	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.005	0.005	0.01	No	10	0.004722	0.0008791	90	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.005	0.00245	0.01	No	5	0.00449	0.00114	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	5	0.004124	0.001317	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-61I	0.003048	0.002019	0.01	No	5	0.0035	0.001397	40	Kaplan-Meier	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03371	0.02648	2	No	19	0.03051	0.00672	0	None	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01674	0.01509	2	No	19	0.01592	0.001409	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01903	0.017	2	No	19	0.01802	0.001739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03032	0.02311	2	No	19	0.02718	0.006723	0	None	In(x)	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.04014	0.02605	2	No	19	0.03309	0.01202	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09133	0.0718	2	No	20	0.08157	0.0172	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04162	0.03263	2	No	20	0.03713	0.007917	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.02069	0.01781	2	No	19	0.01925	0.002456	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02593	0.01695	2	No	19	0.02186	0.008206	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05569	0.04728	2	No	7	0.05149	0.003537	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.04083	0.0253	2	No	6	0.03307	0.005652	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.07446	0.04064	2	No	6	0.05755	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51I	0.01594	0.01396	2	No	10	0.01495	0.001115	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01831	0.01573	2	No	5	0.01702	0.0007727	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02351	0.02073	2	No	5	0.02212	0.0008319	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0125	2	No	5	0.0165	0.007057	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.022	2	No	4	0.02603	0.00733	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	20	0.0002617	0.000184	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001074	0.0008106	0.004	No	19	0.0009597	0.0002429	5.263	None	In(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	21	0.0004583	0.0001317	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	20	0.0004329	0.0001639	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-50	0.008516	0.005195	0.004	Yes	9	0.006856	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-50D	0.0025	0.000059	0.004	No	6	0.001721	0.001208	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	10	0.0002476	0.0002175	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	PZ-58I	0.03983	0.02257	0.004	Yes	5	0.0312	0.005152	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-60I	0.07905	0.06195	0.004	Yes	5	0.0705	0.005101	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-61I	0.002003	0.001305	0.004	No	5	0.001654	0.0002085	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	20	0.000908	0.0002832	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	20	0.000911	0.0002741	90	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	20	0.0008645	0.000331	85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	21	0.0008356	0.0003477	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	20	0.0005865	0.0004251	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-50	0.038	0.0079	0.005	Yes	19	0.02552	0.0242	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-511	0.007544	0.00117	0.005	No	12	0.006233	0.009531	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-581	0.004829	0.003763	0.005	No	5	0.004296	0.0003183	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-601	0.01719	0.01445	0.005	Yes	5	0.01582	0.0008198	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-611	0.001049	0.00008008	0.005	No	5	0.0005644	0.000289	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-251	0.01	0.0016	0.1	No	19	0.009083	0.002748	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-271	0.01	0.003	0.1	No	19	0.009158	0.002544	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-291	0.02	0.01	0.1	No	19	0.01053	0.002294	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-301	0.014	0.0051	0.1	No	19	0.009953	0.00149	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	19	0.005195	0.004228	42.11	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	20	0.008646	0.003309	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	20	0.008207	0.003685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.01	0.00098	0.1	No	19	0.006881	0.004281	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-521	0.01	0.0017	0.1	No	19	0.009563	0.001904	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-511	0.01	0.00098	0.1	No	10	0.008178	0.003841	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-611	0.01	0.0077	0.1	No	5	0.00954	0.001029	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	BRGWC-251	0.005891	0.003686	0.014	No	19	0.005039	0.00211	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-271	0.01028	0.007556	0.014	No	20	0.008916	0.002396	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-291	0.009386	0.006679	0.014	No	19	0.008172	0.002486	5.263	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-301	0.00163	0.0008	0.014	No	20	0.007016	0.01422	15	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	20	0.001075	0.0003354	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01235	0.005405	0.014	No	21	0.01143	0.01401	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001516	0.0004522	0.014	No	20	0.002026	0.002969	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-50	1.42	1.35	0.014	Yes	19	1.392	0.0633	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-521	0.0015	0.00063	0.014	No	19	0.001306	0.0009458	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.506	0.0037	0.014	No	7	0.128	0.1811	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	PZ-51D	0.001	0.000306	0.014	No	7	0.000649	0.0003306	42.86	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-511	0.0259	0.018	0.014	Yes	12	0.02274	0.006306	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-581	0.5929	0.3659	0.014	Yes	5	0.4794	0.06773	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-601	3.827	3.333	0.014	Yes	5	3.58	0.1471	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-611	0.7712	0.382	0.014	Yes	5	0.5766	0.1162	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-631	0.0372	0.01335	0.014	No	4	0.02528	0.005252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-251	1.649	0.6555	5	No	19	1.251	1.026	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-271	1.488	0.6539	5	No	19	1.145	0.8041	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-291	1.859	1.229	5	No	19	1.544	0.5385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-301	1.571	0.7037	5	No	19	1.213	0.8317	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.322	0.5448	5	No	19	0.9333	0.6635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9045	0.4255	5	No	20	0.665	0.4218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.907	0.8611	5	No	20	1.384	0.9213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.126	1.254	5	No	19	1.823	1.076	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-521	3.045	1.537	5	No	19	2.595	1.872	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	1.804	0.1445	5	No	7	0.8834	0.8433	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	2.804	0.9298	5	No	6	1.867	0.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	3.735	1.251	5	No	6	2.493	0.9042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-511	3.695	0.719	5	No	10	2.636	3.453	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-581	4.688	0.06812	5	No	5	2.378	1.378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-601	5.692	1.724	5	No	5	3.708	1.184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-611	3.942	0.4133	5	No	5	1.856	1.106	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-631	6.03	0.768	5	No	4	2.657	2.335	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-251	0.25	0.15	4	No	20	0.2124	0.1265	5	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-271	0.2597	0.1685	4	No	20	0.2141	0.08032	10	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-291	0.2114	0.09945	4	No	20	0.17	0.1177	10	None	x^(1/3)	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-30I	0.3243	0.1374	4	No	20	0.2501	0.2052	5	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	20	0.1034	0.0383	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.166	0.067	4	No	21	0.1761	0.2193	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.28	0.1	4	No	21	0.2283	0.2452	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7652	0.3657	4	No	20	0.6009	0.4231	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2251	0.1389	4	No	19	0.182	0.07363	5.263	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.1933	0.06826	4	No	7	0.1791	0.09553	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2345	0.09408	4	No	7	0.1643	0.0591	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3721	0.2242	4	No	7	0.2981	0.06224	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0744	4	No	11	0.1003	0.02209	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.788	0.8055	4	No	5	1.23	0.3281	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-60I	2.312	0.9685	4	No	5	1.64	0.4007	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.2124	0.03122	4	No	5	0.1284	0.05446	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3286	0.09985	4	No	4	0.2143	0.05039	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	19	0.001898	0.0004444	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.00029	0.015	No	18	0.0008283	0.0007545	27.78	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	20	0.001656	0.0007119	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	20	0.001712	0.0007042	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.002	0.0001	0.015	No	19	0.001234	0.0009282	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	19	0.001897	0.0004492	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.002	0.000056	0.015	No	6	0.001676	0.0007936	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51D	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51I	0.002	0.00036	0.015	No	10	0.001653	0.0007329	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.00086	0.015	No	5	0.00253	0.002255	40	None	No	0.031	NP (normality)
Lead (mg/L)	PZ-61I	0.002	0.00113	0.015	No	5	0.001806	0.0003804	60	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	19	0.003726	0.00386	26.32	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003583	0.003063	0.089	No	19	0.003323	0.0004437	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.01896	0.01284	0.089	No	19	0.01616	0.005502	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	19	0.005085	0.007125	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003833	0.002971	0.089	No	19	0.003402	0.0007362	10.53	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04563	0.04113	0.089	No	20	0.04338	0.003961	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04439	0.03864	0.089	No	19	0.0417	0.005202	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.008695	0.003692	0.089	No	19	0.007458	0.006342	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006813	0.004472	0.089	No	7	0.005643	0.0009854	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02759	0.01878	0.089	No	6	0.02318	0.003208	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.01024	0.005163	0.089	No	6	0.008033	0.002177	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02356	0.01924	0.089	No	10	0.0214	0.002421	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05661	0.03655	0.089	No	5	0.04658	0.005985	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-60I	0.114	0.0936	0.089	Yes	5	0.1013	0.007636	0	None	No	0.031	NP (selected)
Lithium (mg/L)	PZ-61I	0.01262	0.00839	0.089	No	5	0.01051	0.001263	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.00819	0.003735	0.089	No	4	0.005963	0.0009812	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	17	0.0001837	0.00004662	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	17	0.0001822	0.00005032	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.0002	0.000098	0.002	No	17	0.0001769	0.00005236	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	17	0.000176	0.00005399	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	17	0.0001807	0.00004308	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.0002	0.0002	0.002	No	10	0.0001899	0.00003194	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	18	0.005999	0.004605	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	18	0.006617	0.004373	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.01	0.00076	0.1	No	19	0.008004	0.003971	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	19	0.008466	0.003639	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.001	0.1	No	18	0.001194	0.0005965	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.000782	0.1	No	18	0.005459	0.004128	38.89	None	No	0.01	NP (normality)

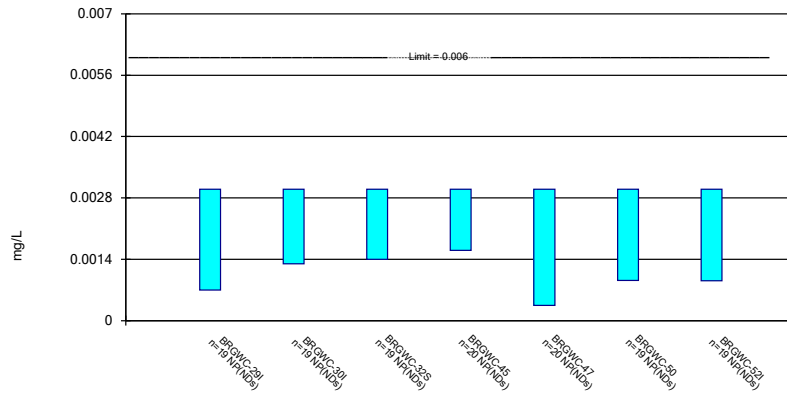
Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	PZ-50D	0.001932	0.0006431	0.1	No	6	0.001318	0.0004849	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.0054	0.0004734	0.1	No	6	0.002563	0.002181	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000313	0.1	No	10	0.0008596	0.0002961	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.001113	0.0003887	0.1	No	4	0.0007508	0.0001595	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0025	0.05	No	19	0.003963	0.001231	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	19	0.004847	0.001272	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	19	0.004658	0.0008255	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-32S	0.1777	0.08972	0.05	Yes	11	0.1337	0.0528	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	20	0.004895	0.0004696	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.002	0.05	No	20	0.00408	0.001462	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.005	0.002	0.05	No	19	0.003676	0.001412	47.37	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.005268	0.00116	0.05	No	5	0.003214	0.001226	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.005387	0.002241	0.05	No	5	0.003814	0.0009389	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.008085	0.001571	0.05	No	5	0.004828	0.001944	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	19	0.0007537	0.00087	31.58	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

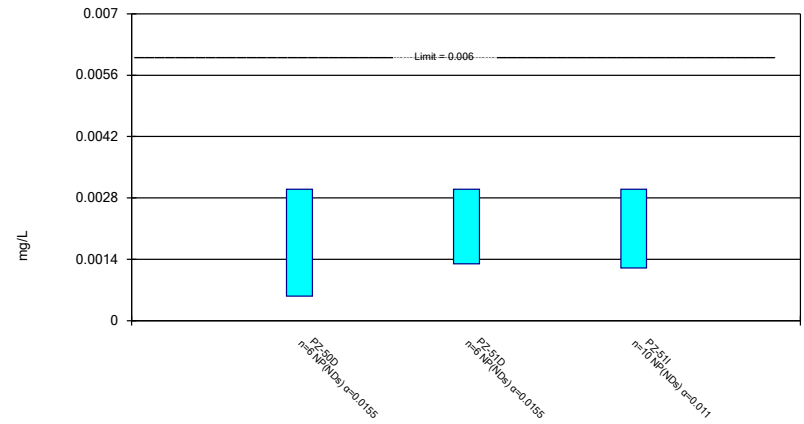
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

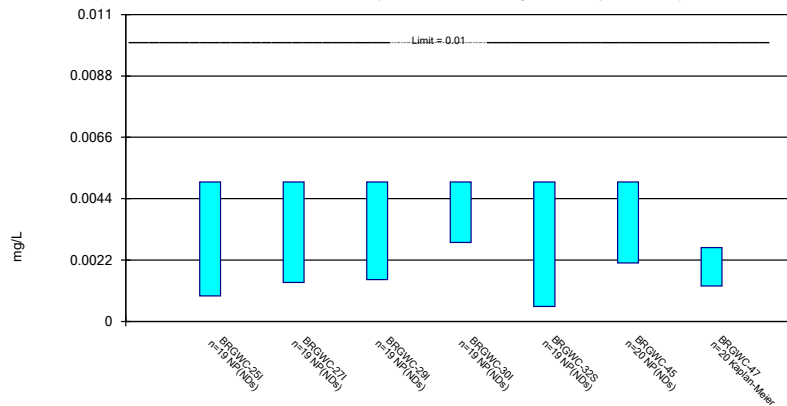
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

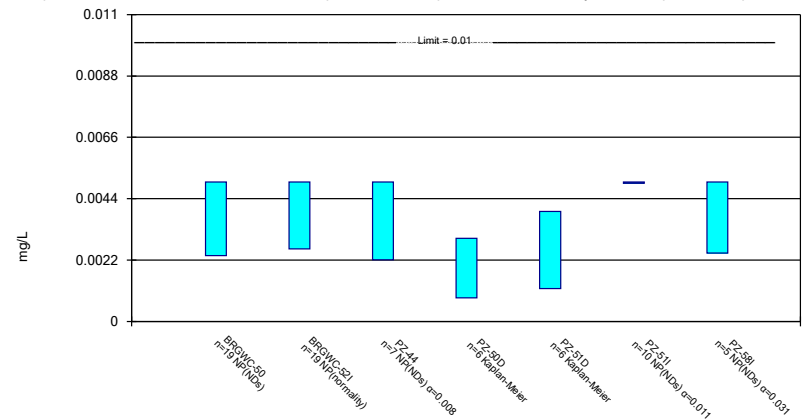
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

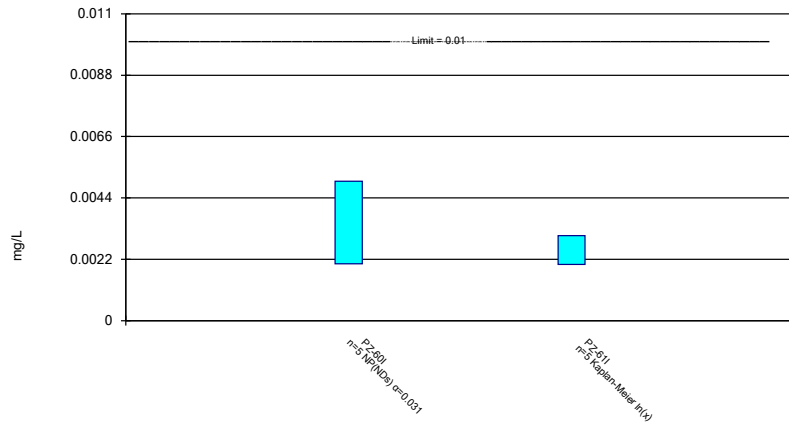
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

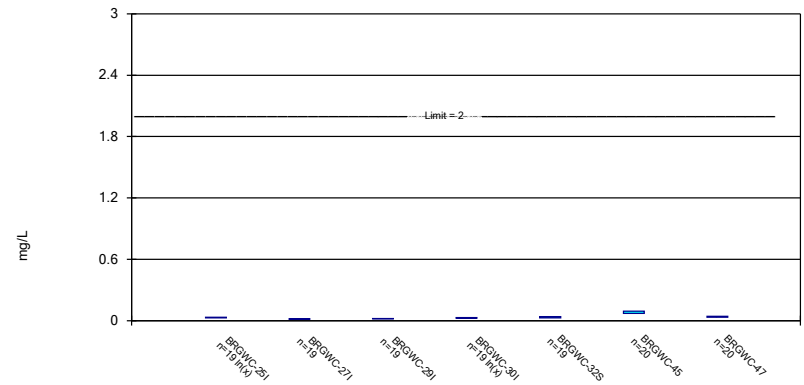
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Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

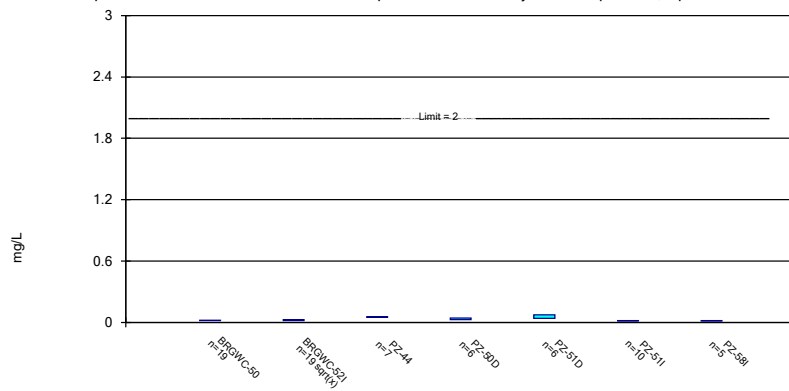
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

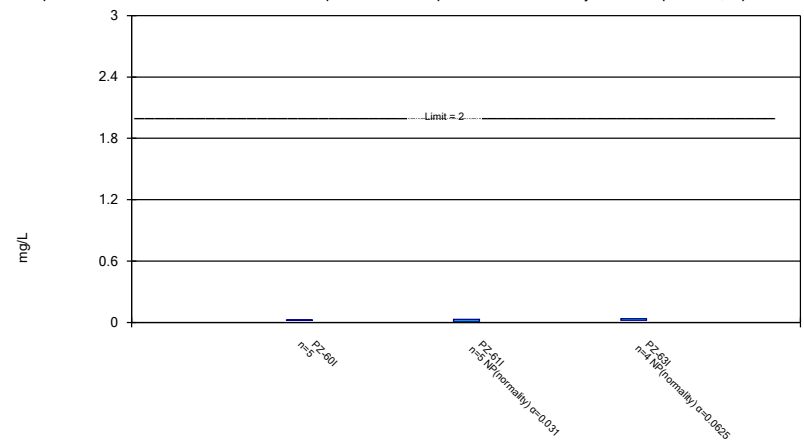
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

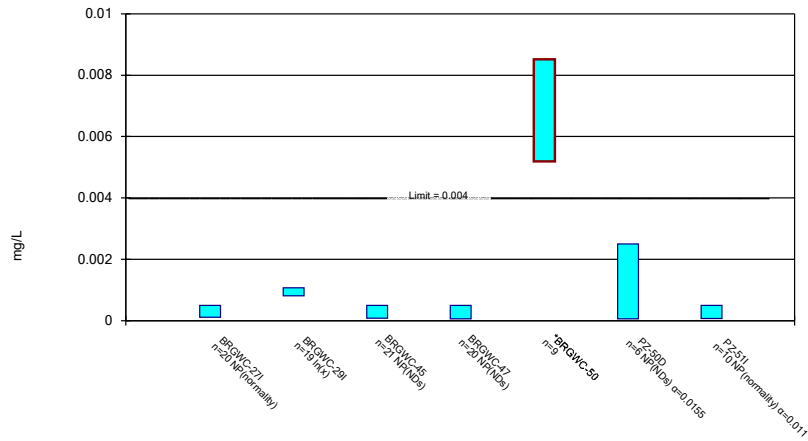
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

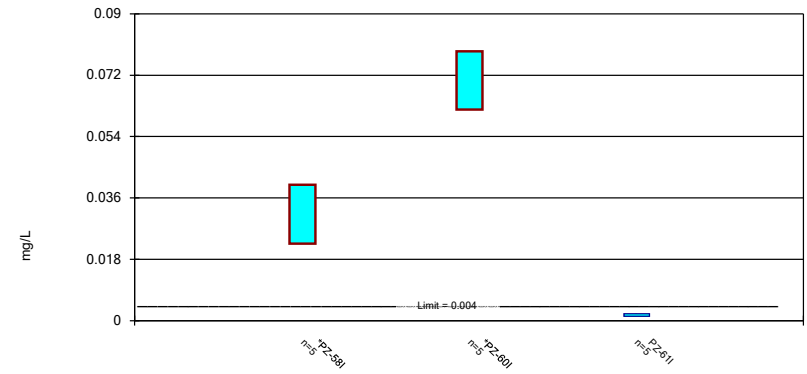
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

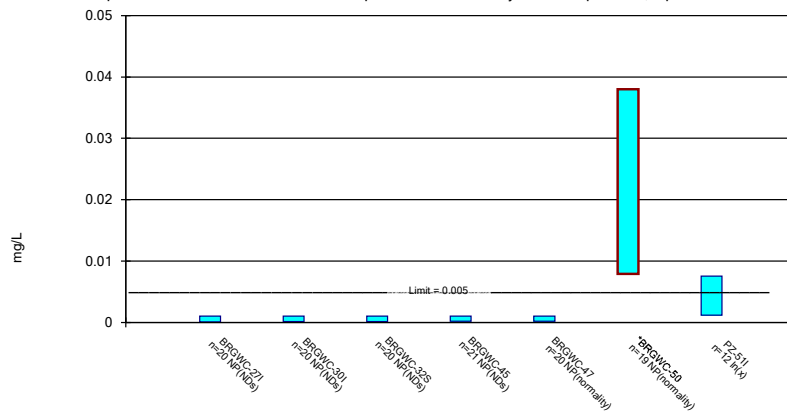
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

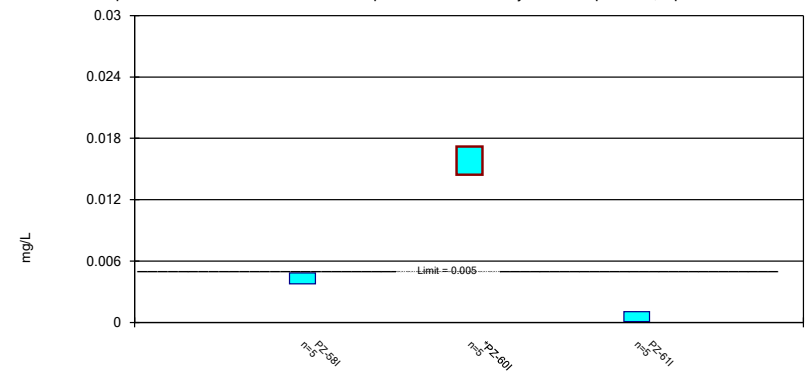
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

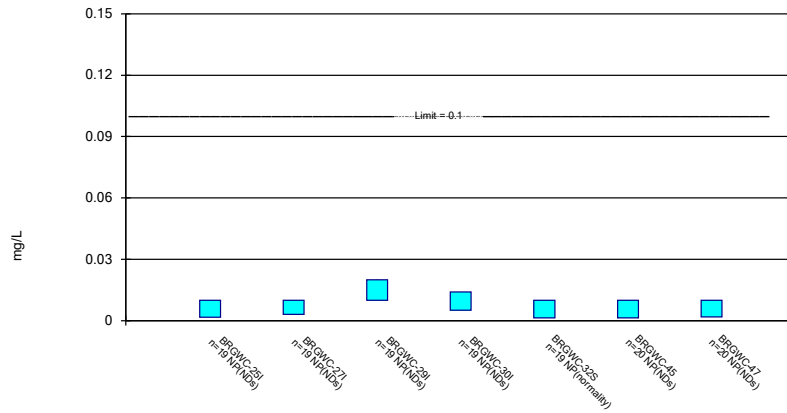
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

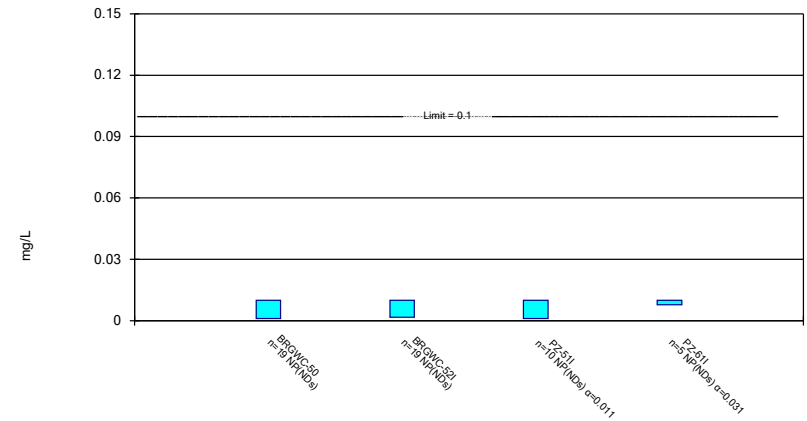
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Inter Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

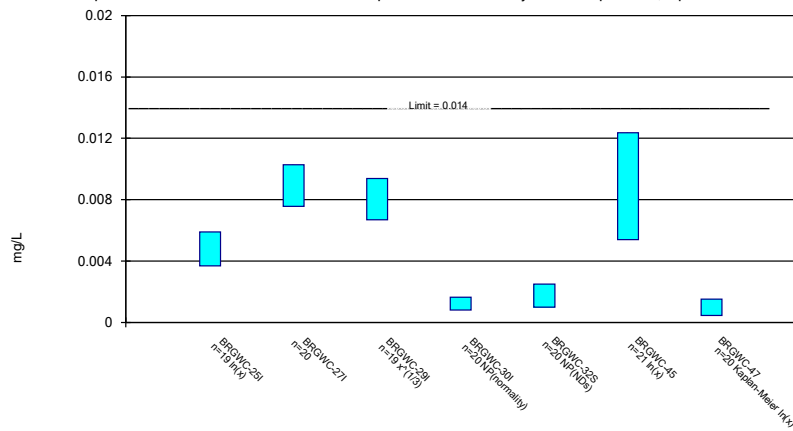
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Inter Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

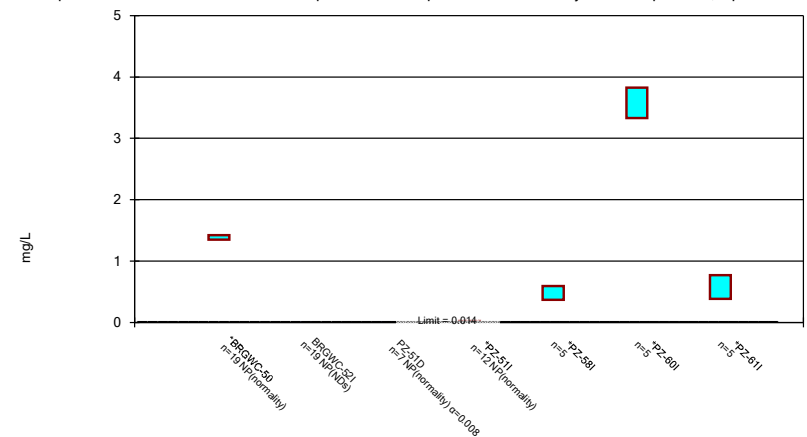
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

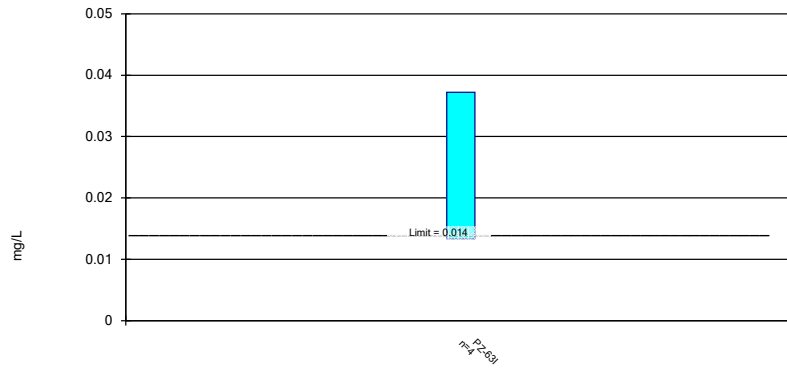
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

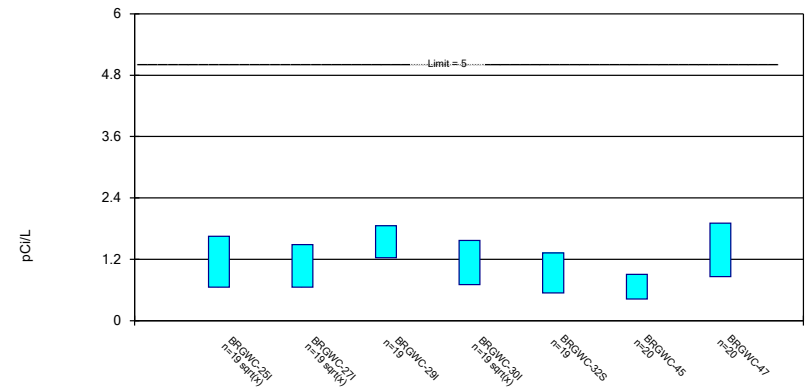
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

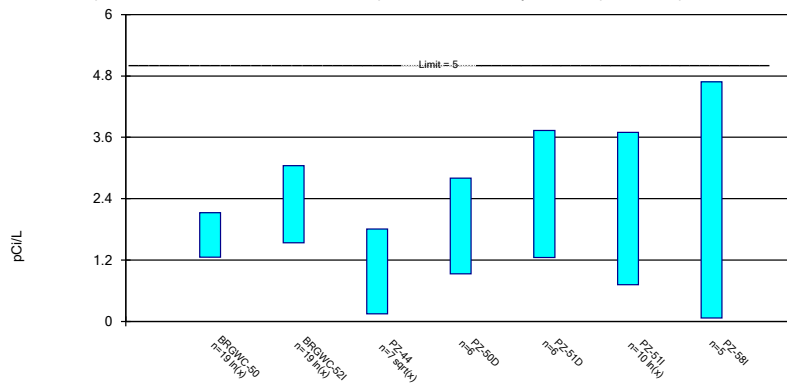
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

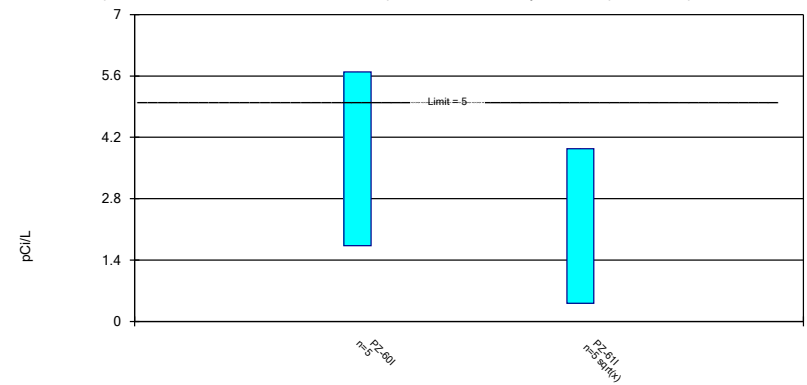
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

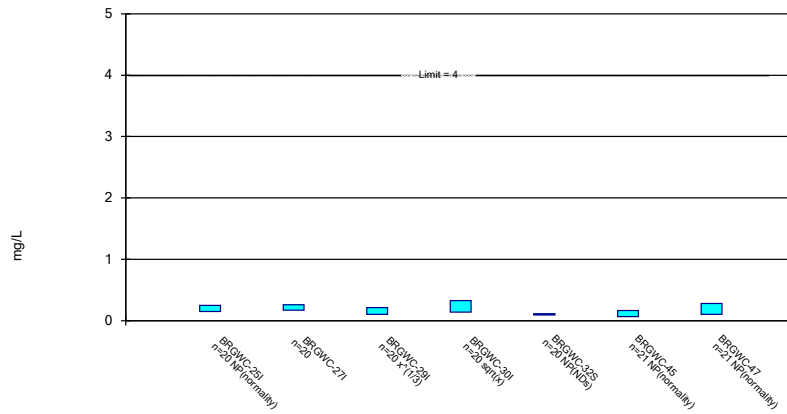
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

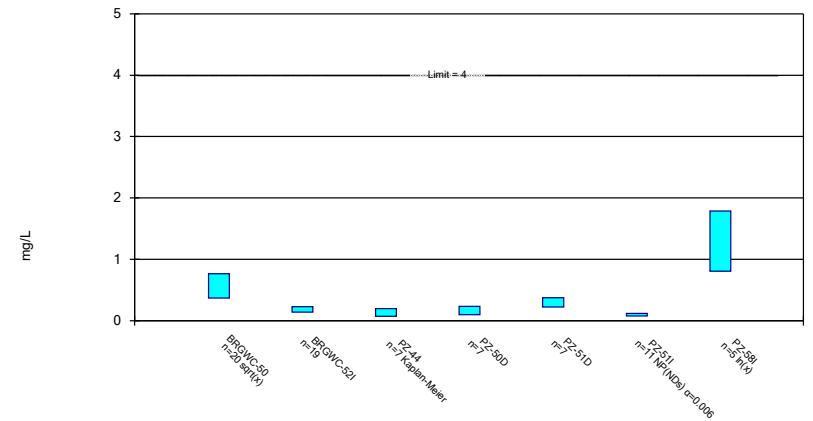
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

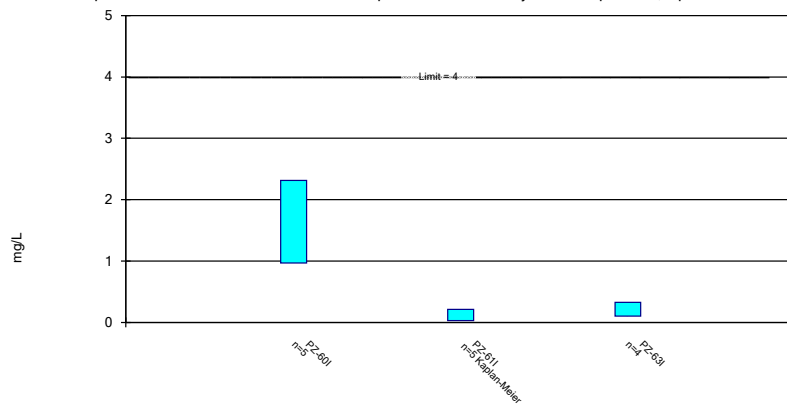
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

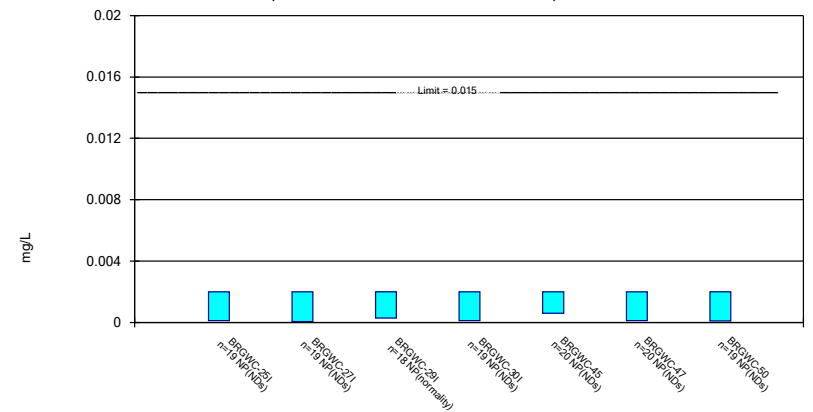
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Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

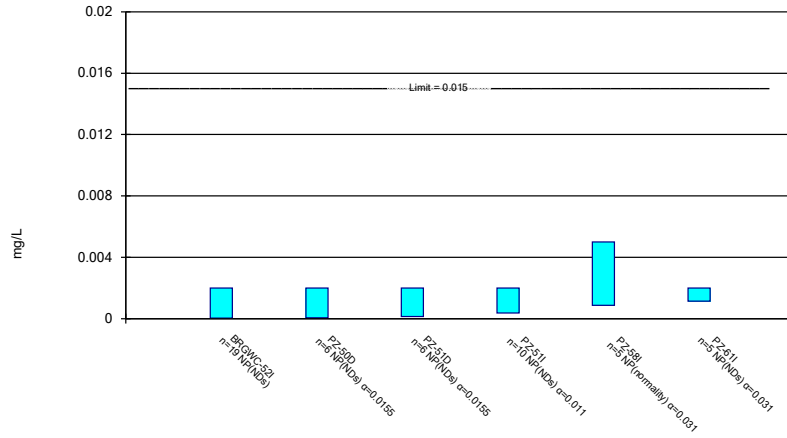
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

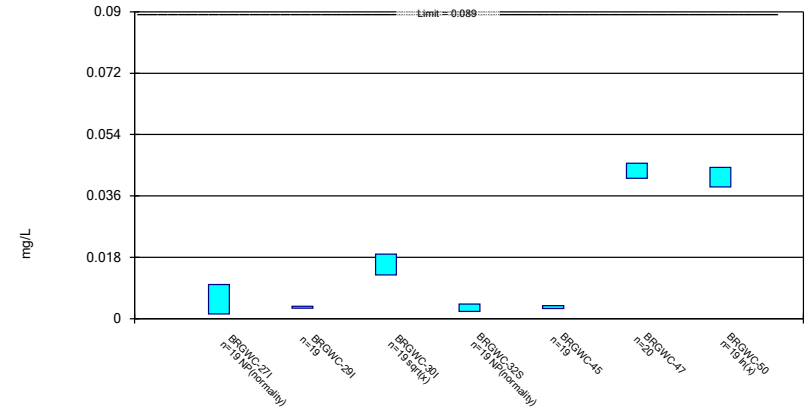
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

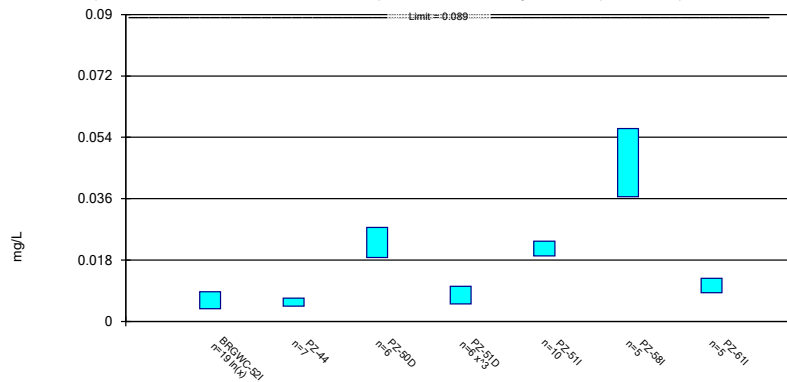
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

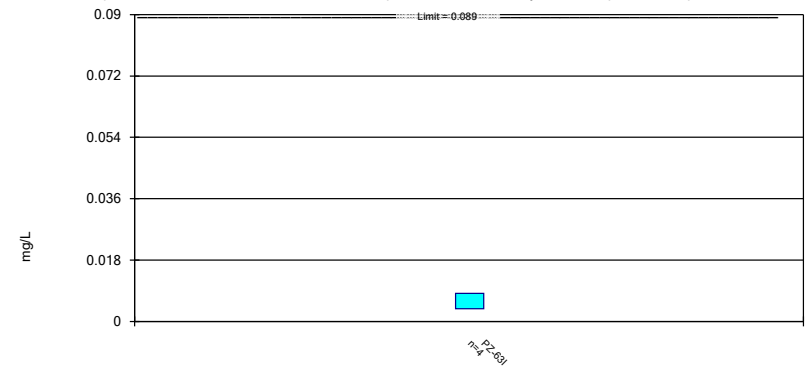
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

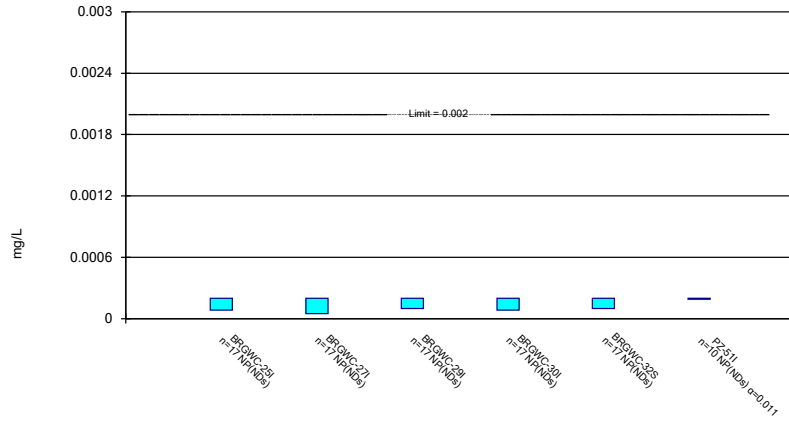
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

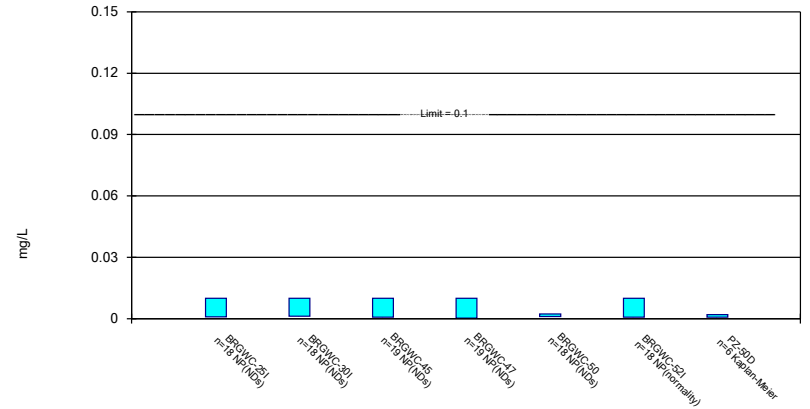
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

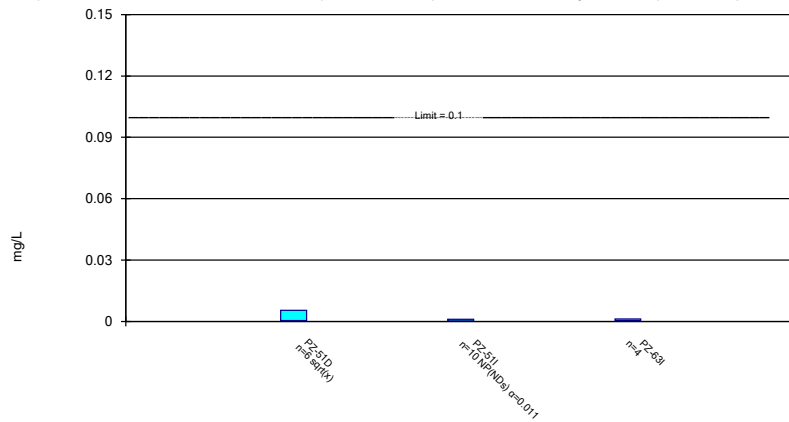
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

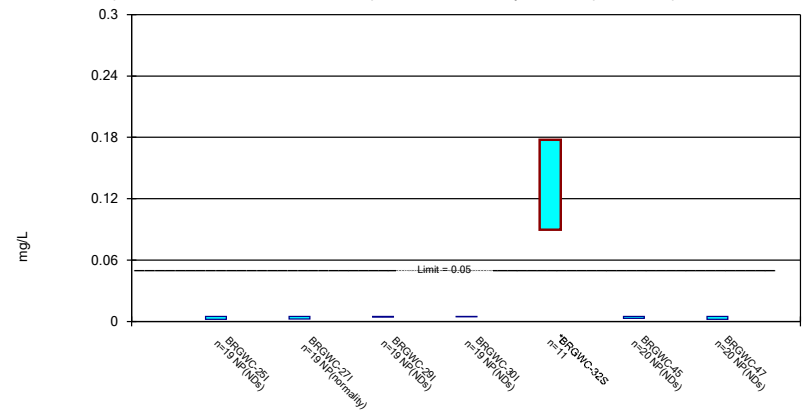
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

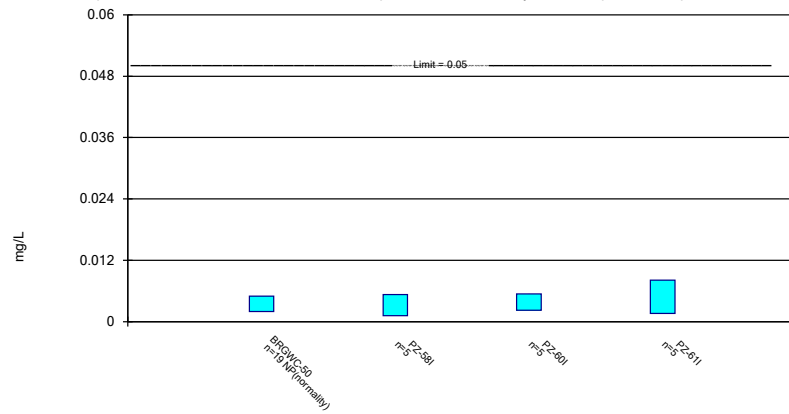
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

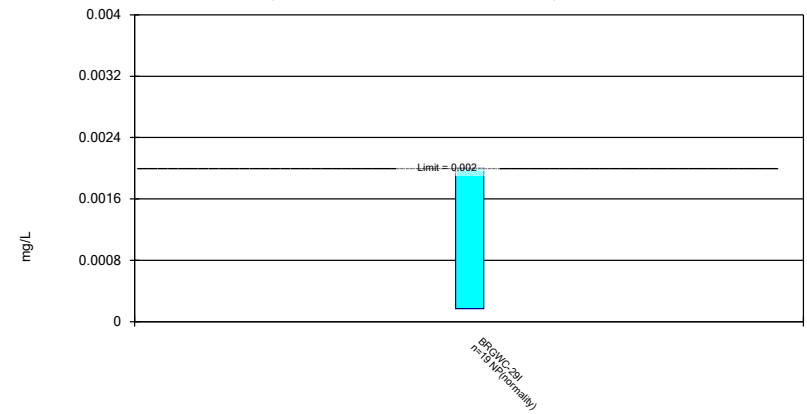
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interva
Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
9/6/2016		<0.003					
9/8/2016	<0.003		<0.003				
11/21/2016	<0.003	<0.003	<0.003				
2/22/2017	<0.003	<0.003	<0.003				
6/14/2017	0.0007 (J)	<0.003	<0.003				
9/27/2017	<0.003	<0.003	<0.003				
2/14/2018	<0.003	<0.003	<0.003				
3/6/2018				<0.003	<0.003		
3/15/2018						<0.003	
5/1/2018				<0.003	<0.003 (D)	<0.003	
6/27/2018	<0.003		<0.003		<0.003		
6/28/2018		<0.003		<0.003		<0.003	
7/31/2018				<0.003			
8/1/2018					<0.003	<0.003	
8/10/2018							<0.003
8/23/2018				<0.003	<0.003		0.00085 (J)
9/19/2018				<0.003	<0.003		<0.003
10/29/2018				<0.003	<0.003	<0.003	<0.003
11/28/2018				<0.003	<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003					
12/19/2018			<0.003		<0.003	<0.003	
12/20/2018				0.0024 (J)			<0.003
1/16/2019						<0.003	
1/17/2019							<0.003
2/13/2019							<0.003
8/27/2019		<0.003	<0.003				
8/28/2019	<0.003			0.00046 (J)	<0.003		
8/29/2019						0.00052 (J)	<0.003
10/16/2019	<0.003				<0.003	<0.003	<0.003
12/3/2019				0.00088 (J)			
12/4/2019		<0.003	<0.003				
3/4/2020	<0.003				<0.003	<0.003	0.00043 (J)
3/5/2020		<0.003	0.0014 (J)	0.0016 (J)			
8/19/2020	<0.003	<0.003	<0.003				
8/20/2020				0.0031	<0.003	<0.003	<0.003
9/15/2020	<0.003						
9/16/2020		<0.003	<0.003	0.0012 (J)	0.00035 (J)		
9/17/2020						0.00041 (J)	<0.003
3/2/2021				0.0014 (J)	<0.003		
3/3/2021	<0.003	<0.003					
3/4/2021			<0.003			0.00092 (J)	0.00091 (J)
9/23/2021				<0.003	<0.003		
9/27/2021						<0.003	
9/28/2021	<0.003	<0.003	<0.003				<0.003
2/2/2022		0.0013 (J)	<0.003	<0.003	<0.003		<0.003
2/3/2022	<0.003					<0.003	
8/23/2022					<0.003		
8/24/2022	<0.003	<0.003				<0.003	
8/25/2022			<0.003	<0.003			<0.003
1/24/2023			<0.003				
1/25/2023				<0.003		<0.003	<0.003
1/26/2023	<0.003	<0.003			<0.003		

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2023		<0.003	<0.003				
9/6/2023	<0.003			<0.003	<0.003		<0.003
9/8/2023						<0.003	
Mean	0.002879	0.002911	0.002916	0.002502	0.002868	0.002624	0.002642
Std. Dev.	0.0005277	0.00039	0.0003671	0.0008619	0.0005926	0.0008973	0.0008549
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0007	0.0013	0.0014	0.0016	0.00035	0.00092	0.00091

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-511
1/19/2019			<0.003
10/18/2019			<0.003
8/20/2020			0.0017 (J)
9/17/2020			<0.003
3/3/2021		0.0013 (J)	
3/4/2021			0.00079 (J)
3/5/2021	0.00056 (J)		
9/27/2021			0.0012 (J)
9/28/2021	<0.003	<0.003	
2/2/2022			<0.003
2/3/2022	<0.003	<0.003	
8/24/2022		<0.003	<0.003
8/25/2022	<0.003		
1/26/2023		<0.003	<0.003
1/27/2023	<0.003		
9/6/2023		<0.003	
9/8/2023	<0.003		<0.003
Mean	0.002593	0.002717	0.002469
Std. Dev.	0.0009961	0.000694	0.0008816
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00056	0.0013	0.0012

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.005			
9/8/2016	<0.005	<0.005	<0.005		<0.005		
11/17/2016	<0.005						
11/18/2016		<0.005					
11/21/2016			0.0019 (J)	<0.005	<0.005		
2/21/2017	<0.005	<0.005					
2/22/2017			<0.005	<0.005	<0.005		
6/13/2017	0.0006 (J)	0.0009 (J)					
6/14/2017			0.002 (J)	<0.005	<0.005		
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005		
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005		
3/6/2018						<0.005 (X)	<0.005 (X)
5/1/2018						0.0021 (J)	0.0018 (JD)
6/26/2018	0.00072 (J)						
6/27/2018		<0.005	<0.005		<0.005		0.0016 (J)
6/28/2018				<0.005 (X)		<0.005 (X)	
7/31/2018						<0.005	
8/1/2018							0.0028 (J)
8/23/2018						0.00075 (J)	<0.005
9/19/2018						<0.005	<0.005
10/29/2018						<0.005	0.0012 (J)
11/28/2018						0.00096 (J)	0.0019 (J)
12/18/2018	0.00091 (J)		<0.005	<0.005			
12/19/2018					<0.005		0.00075 (J)
12/20/2018		<0.005				<0.005	
8/27/2019	<0.005			<0.005	<0.005		
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)
10/15/2019	0.00052 (J)						
10/16/2019			0.00065 (J)				<0.005
12/3/2019						0.0007 (J)	
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)		
3/4/2020	<0.005	<0.005	0.00044 (J)				0.00049 (J)
3/5/2020				<0.005	<0.005	<0.005	
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
8/20/2020						<0.005	0.00089 (J)
9/15/2020	<0.005		<0.005				
9/16/2020		<0.005		<0.005	<0.005	<0.005	<0.005
3/2/2021	<0.005					<0.005	<0.005
3/3/2021		<0.005	0.0015 (J)	<0.005			
3/4/2021					<0.005		
9/23/2021						<0.005	0.002 (J)
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/2/2022	<0.005			<0.005	<0.005	<0.005	0.0056
2/3/2022			<0.005				
2/4/2022		<0.005					
8/23/2022	<0.005						0.00228 (J)
8/24/2022			<0.005	0.00283 (J)			
8/25/2022		<0.005			<0.005	<0.005	
1/24/2023					<0.005		
1/25/2023		<0.005				0.00225 (J)	
1/26/2023	<0.005		<0.005	0.00208 (J)			0.0024 (J)
8/31/2023				<0.005	<0.005		

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	<0.005	<0.005	<0.005			<0.005	0.0038 (J)
Mean	0.004092	0.004163	0.003611	0.004498	0.004765	0.003867	0.002965
Std. Dev.	0.001808	0.001669	0.001909	0.001251	0.001025	0.001817	0.001753
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.002641
Lower Lim.	0.00091	0.0014	0.0015	0.00283	0.00053	0.0021	0.001266

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			<0.005 (X)				
3/15/2018	0.0014 (J)						
5/1/2018	<0.005		<0.005				
6/28/2018	<0.005						
8/1/2018	0.00074 (J)						
8/10/2018		<0.005					
8/23/2018		<0.005					
9/19/2018		0.0013 (J)					
10/29/2018	<0.005	0.0038 (J)					
11/28/2018	<0.005	0.0016 (J)					
12/19/2018	<0.005						
12/20/2018		0.0032 (J)					
1/16/2019	<0.005						
1/17/2019		0.0032 (J)					
1/19/2019						<0.005	
2/13/2019		<0.005					
8/29/2019	<0.005	0.00067 (J)					
10/16/2019	<0.005	0.0026 (J)					
10/18/2019						<0.005	
3/4/2020	0.00046 (J)	0.0047 (J)					
8/20/2020	<0.005	0.0031 (J)				<0.005	
9/17/2020	<0.005	<0.005				<0.005	
3/3/2021					0.0014 (J)		
3/4/2021	<0.005	0.003 (J)				<0.005	
3/5/2021				0.00087 (J)			
9/27/2021	<0.005					<0.005	
9/28/2021		<0.005	<0.005	<0.005	<0.005		<0.005
2/2/2022		<0.005	0.004 (J)			<0.005	
2/3/2022	<0.005			0.0012 (J)	0.0015 (J)		<0.005
8/24/2022	0.0025 (J)				0.00308 (J)	0.00222 (J)	0.00245 (J)
8/25/2022		<0.005	<0.005	0.00235 (J)			
1/25/2023	0.00236 (J)	<0.005	0.00221 (J)				
1/26/2023					0.00275 (J)	<0.005	<0.005
1/27/2023				0.00215 (J)			
9/6/2023		<0.005			0.00408 (J)		
9/8/2023	<0.005		<0.005	0.003 (J)		<0.005	<0.005
Mean	0.004077	0.003798	0.004459	0.002428	0.002968	0.004722	0.00449
Std. Dev.	0.001646	0.001452	0.001059	0.001481	0.001417	0.0008791	0.00114
Upper Lim.	0.005	0.005	0.005	0.002982	0.003948	0.005	0.005
Lower Lim.	0.00236	0.0026	0.00221	0.0008455	0.001176	0.005	0.00245

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-601	PZ-611
9/27/2021		0.0023 (J)
9/28/2021	<0.005	
2/2/2022		<0.005
2/3/2022	<0.005	
8/24/2022	0.00358 (J)	0.00295 (J)
1/26/2023	0.00204 (J)	0.00225 (J)
8/31/2023		<0.005
9/8/2023	<0.005	
Mean	0.004124	0.0035
Std. Dev.	0.001317	0.001397
Upper Lim.	0.005	0.003048
Lower Lim.	0.00204	0.002019

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.0206			
9/8/2016	0.0378	0.0184	0.0199		0.0593		
11/17/2016	0.0448						
11/18/2016		0.0173					
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)		
2/21/2017	0.0447	0.015					
2/22/2017			0.0179	0.0219	0.0498		
6/13/2017	0.0351	0.0143					
6/14/2017			0.0157	0.0197	0.0421		
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411		
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417		
3/6/2018						0.1	0.0519
5/1/2018						0.084	0.057 (D)
6/26/2018	0.031						
6/27/2018		0.015	0.017		0.038		0.046
6/28/2018				0.023		0.067	
7/31/2018						0.087 (J+X)	
8/1/2018							0.043 (J+X)
8/23/2018						0.084	0.038
9/19/2018						0.086	0.036
10/29/2018						0.098 (J+X)	0.041 (J+X)
11/28/2018						0.11	0.039
12/18/2018	0.03		0.017	0.029			
12/19/2018					0.036		0.04
12/20/2018		0.015				0.093	
8/27/2019	0.027			0.027	0.032		
8/28/2019		0.019	0.02			0.11	0.035
10/15/2019	0.027						
10/16/2019			0.019				0.032
12/3/2019						0.099	
12/4/2019		0.016		0.021	0.028		
3/4/2020	0.026	0.015	0.018				0.038
3/5/2020				0.025	0.026	0.078	
8/19/2020	0.027	0.016	0.019	0.026	0.025		
8/20/2020						0.083	0.035
9/15/2020	0.024		0.017				
9/16/2020		0.016		0.022	0.024	0.085	0.028
3/2/2021	0.026					0.061	0.036
3/3/2021		0.016	0.021	0.028			
3/4/2021					0.024		
9/23/2021						0.064	0.031
9/28/2021	0.023	0.013	0.017	0.035	0.02		
2/2/2022	0.023			0.031	0.023	0.063	0.028
2/3/2022			0.016				
2/4/2022		0.015					
8/23/2022	0.0259						0.0285
8/24/2022			0.0175	0.0389			
8/25/2022		0.0161			0.0231	0.0574	
1/24/2023					0.0182		
1/25/2023		0.0166				0.0695	
1/26/2023	0.0293		0.018	0.0397			0.0311
8/31/2023				0.04	0.0243		

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	0.0271	0.0151	0.0174			0.0524	0.028
Mean	0.03051	0.01592	0.01802	0.02718	0.03309	0.08157	0.03713
Std. Dev.	0.00672	0.001409	0.001739	0.006723	0.01202	0.0172	0.007917
Upper Lim.	0.03371	0.01674	0.01903	0.03032	0.04014	0.09133	0.04162
Lower Lim.	0.02648	0.01509	0.017	0.02311	0.02605	0.0718	0.03263

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			0.0461				
3/15/2018	0.021						
5/1/2018	0.024		0.052				
6/28/2018	0.021						
8/1/2018	0.02 (J+X)						
8/10/2018		0.038					
8/23/2018		0.03 (JX)					
9/19/2018		0.03					
10/29/2018	0.019 (J+X)	0.025 (J+X)					
11/28/2018	0.02	0.017					
12/19/2018	0.02						
12/20/2018		0.013					
1/16/2019	0.02						
1/17/2019		0.017					
1/19/2019						0.017	
2/13/2019		0.025					
8/29/2019	0.018	0.017					
10/16/2019	0.017	0.015					
10/18/2019						0.014	
3/4/2020	0.019	0.022					
8/20/2020	0.019	0.017				0.013	
9/17/2020	0.02	0.02				0.015	
3/3/2021					0.08		
3/4/2021	0.025	0.019				0.016	
3/5/2021				0.043			
9/27/2021	0.017					0.014	
9/28/2021		0.013	0.049	0.034	0.057		0.017
2/2/2022		0.013	0.052			0.015	
2/3/2022	0.016			0.033	0.057		0.016
8/24/2022	0.0166				0.0584	0.0154	0.0181
8/25/2022		0.0179	0.056	0.0257			
1/25/2023	0.0165	0.0249	0.0498				
1/26/2023					0.0481	0.0152	0.0167
1/27/2023				0.0315			
9/6/2023		0.0415			0.0448		
9/8/2023	0.0166		0.0555	0.0312		0.0149	0.0173
Mean	0.01925	0.02186	0.05149	0.03307	0.05755	0.01495	0.01702
Std. Dev.	0.002456	0.008206	0.003537	0.005652	0.01231	0.001115	0.0007727
Upper Lim.	0.02069	0.02593	0.05569	0.04083	0.07446	0.01594	0.01831
Lower Lim.	0.01781	0.01695	0.04728	0.0253	0.04064	0.01396	0.01573

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I	PZ-63I
9/27/2021		0.029	
9/28/2021	0.022		
2/2/2022		0.015	
2/3/2022	0.021		
2/4/2022			0.037
8/24/2022	0.0226	0.0133	
8/25/2022			0.023
1/26/2023	0.0218	0.0125	
1/30/2023			0.022
8/31/2023		0.0127	
9/8/2023	0.0232		0.0221
Mean	0.02212	0.0165	0.02603
Std. Dev.	0.0008319	0.007057	0.00733
Upper Lim.	0.02351	0.029	0.037
Lower Lim.	0.02073	0.0125	0.022

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	PZ-50D	PZ-51I
9/8/2016	0.0002 (J)	0.0011 (J)					
11/18/2016	0.0002 (J)						
11/21/2016		0.0012 (J)					
2/21/2017	0.0002 (J)						
2/22/2017		0.0014 (J)					
6/13/2017	0.0002 (J)						
6/14/2017		0.0012 (J)					
9/27/2017	0.0001 (J)	0.001 (J)					
2/14/2018	<0.0005	<0.003					
3/6/2018			<0.0005	<0.0005			
3/15/2018					<0.003		
5/1/2018			<0.0005	<0.0005 (D)	<0.003		
6/27/2018	0.00014 (J)	0.0008 (J)		<0.0005			
6/28/2018			<0.0005		0.003 (J)		
7/31/2018			<0.0005				
8/1/2018				<0.0005	0.0025 (J)		
8/23/2018			7.9E-05 (J)	5.5E-05 (J)			
9/19/2018			<0.0005	<0.0005			
10/29/2018			<0.0005	<0.0005	0.0042		
11/28/2018			<0.0005	5.6E-05 (J)	0.0029 (J)		
12/18/2018		0.00071 (J)					
12/19/2018				<0.0005 (X)	0.0043		
12/20/2018	<0.0005 (X)		<0.0005				
1/16/2019					0.0038		
1/19/2019							6.4E-05 (J)
8/28/2019	0.00012 (J)	0.0008 (J)	<0.0005	<0.0005			
8/29/2019					0.0029 (J)		
10/16/2019		0.00072 (J)		<0.0005	0.0027 (J)		
10/17/2019	<0.0005		<0.0005				
10/18/2019							<0.0005
12/3/2019			<0.0005				
12/4/2019	0.00012 (J)						
3/4/2020	0.00012 (J)	0.00073 (J)		<0.0005	0.0052		
3/5/2020			<0.0005				
8/19/2020	9.9E-05 (J)	0.00074 (J)					
8/20/2020			4.6E-05 (J)	4.7E-05 (J)	0.0044		7.7E-05 (J)
9/15/2020		0.00071 (J)					
9/16/2020	0.00011 (J)		<0.0005	<0.0005			
9/17/2020					0.0065		9.6E-05 (J)
3/2/2021			<0.0005	<0.0005			
3/3/2021	7.1E-05 (J)	0.00094					
3/4/2021					0.0059		9.7E-05 (J)
3/5/2021						<0.0025	
9/23/2021			<0.0005	<0.0005			
9/27/2021					0.006		7.1E-05 (J)
9/28/2021	<0.0005	0.00079				5.9E-05 (J)	
2/2/2022			<0.0005	<0.0005			7.1E-05 (J)
2/3/2022		0.00083			0.0071	<0.0025	
2/4/2022	5.4E-05 (J)						
8/23/2022				<0.0005			
8/24/2022		0.000845			0.00831		<0.0005
8/25/2022	<0.0005		<0.0005			0.000269 (J)	

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	PZ-50D	PZ-51I
1/25/2023	<0.0005		<0.0005		0.00962		
1/26/2023		0.00109		<0.0005			<0.0005
1/27/2023						<0.0025	
9/6/2023	<0.0005	0.00113	<0.0005	<0.0005			
9/8/2023					0.00867	<0.0025	<0.0005
Mean	0.0002617	0.0009597	0.0004583	0.0004329	0.006856	0.001721	0.0002476
Std. Dev.	0.000184	0.0002429	0.0001317	0.0001639	0.001719	0.001208	0.0002175
Upper Lim.	0.0005	0.001074	0.0005	0.0005	0.008516	0.0025	0.0005
Lower Lim.	0.00011	0.0008106	7.9E-05	5.6E-05	0.005195	5.9E-05	7.1E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-581	PZ-601	PZ-611
9/27/2021			0.0017
9/28/2021	0.025	0.065	
2/2/2022			0.0015
2/3/2022	0.027	0.072	
8/24/2022	0.0335	0.0703	0.00198
1/26/2023	0.0377	0.0782	0.00164
8/31/2023			0.00145
9/8/2023	0.0328	0.067	
Mean	0.0312	0.0705	0.001654
Std. Dev.	0.005152	0.005101	0.0002085
Upper Lim.	0.03983	0.07905	0.002003
Lower Lim.	0.02257	0.06195	0.001305

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	PZ-51I
9/6/2016		<0.001					
9/8/2016	7E-05 (J)		<0.001				
11/18/2016	9E-05 (J)						
11/21/2016		8E-05 (J)	8E-05 (J)				
2/21/2017	<0.001						
2/22/2017		<0.001	0.0001 (J)				
6/13/2017	<0.001						
6/14/2017		<0.001	<0.001				
9/27/2017	<0.001	<0.001	<0.001				
2/14/2018	<0.001	<0.001	<0.001				
3/6/2018				<0.001	<0.001		
3/15/2018						0.038	
5/1/2018				<0.001	<0.001 (D)	0.011	
6/27/2018	<0.001		0.00011 (J)		0.00014 (J)		
6/28/2018		<0.001		<0.001		0.087	
7/31/2018				<0.001			
8/1/2018					0.00011 (J)	0.042	
8/3/2018							0.0015
8/23/2018				<0.001	0.00018 (J)		
9/19/2018				<0.001	0.00015 (J)		
10/29/2018				9.8E-05 (J)	0.00019 (J)	0.083	
11/28/2018				<0.001	0.00022 (J)	0.031	
12/18/2018		<0.001					
12/19/2018			<0.001 (X)		<0.001	0.042	
12/20/2018	<0.001			<0.001 (X)			
1/16/2019						0.028	
1/19/2019							0.0016
8/27/2019		<0.001	<0.001				
8/28/2019	<0.001			<0.001	0.00017 (J)		
8/29/2019						0.0071	
10/16/2019					0.00018 (J)	0.014	
10/17/2019	<0.001	<0.001	<0.001	<0.001			
10/18/2019							0.00083 (J)
12/3/2019				0.00011 (J)			
12/4/2019	<0.001	<0.001	<0.001				
3/4/2020	<0.001				0.00024 (J)	0.013	
3/5/2020		<0.001	<0.001	<0.001			
8/19/2020	<0.001	<0.001	<0.001				
8/20/2020				0.00014 (J)	<0.001	0.0079	0.0019 (J)
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001		
9/17/2020						0.021	0.033
10/27/2020							0.0051
3/2/2021				0.0002 (J)	<0.001		
3/3/2021	<0.001	<0.001					
3/4/2021			<0.001			0.019	0.017
9/23/2021				<0.001	<0.001		
9/27/2021						0.0095	0.0031
9/28/2021	<0.001	<0.001	<0.001				
2/2/2022		0.00014 (J)	<0.001	<0.001	0.00015 (J)		0.0043
2/3/2022						0.0085	
2/4/2022	<0.001						
8/23/2022					<0.001		

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	PZ-51I
8/24/2022		<0.001				0.00818	0.00478
8/25/2022	<0.001		<0.001	<0.001			
1/24/2023			<0.001				
1/25/2023	<0.001			<0.001		0.00726	
1/26/2023		<0.001			<0.001		0.00101
8/31/2023		<0.001	<0.001				
9/6/2023	<0.001			<0.001	<0.001		
9/8/2023						0.00744	0.000679 (J)
Mean	0.000908	0.000911	0.0008645	0.0008356	0.0005865	0.02552	0.006233
Std. Dev.	0.0002832	0.0002741	0.000331	0.0003477	0.0004251	0.0242	0.009531
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.038	0.007544
Lower Lim.	9E-05	0.00014	0.00011	0.0002	0.00017	0.0079	0.00117

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-581	PZ-601	PZ-611
9/27/2021			0.00081
9/28/2021	0.0042	0.016	
2/2/2022			0.00014 (J)
2/3/2022	0.0038	0.016	
8/24/2022	0.0046	0.017	0.000859 (J)
1/26/2023	0.00435	0.0152	0.000517 (J)
8/31/2023			0.000496 (J)
9/8/2023	0.00453	0.0149	
Mean	0.004296	0.01582	0.0005644
Std. Dev.	0.0003183	0.0008198	0.000289
Upper Lim.	0.004829	0.01719	0.001049
Lower Lim.	0.003763	0.01445	8.008E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.01			
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01		
11/17/2016	<0.01						
11/18/2016		<0.01					
11/21/2016			<0.01	<0.01	<0.01		
2/21/2017	<0.01	<0.01					
2/22/2017			<0.01	<0.01	0.0012 (J)		
6/13/2017	<0.01	<0.01					
6/14/2017			<0.01	<0.01	0.0009 (J)		
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)		
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01		
3/6/2018						<0.01	<0.01
5/1/2018						<0.01	<0.01 (D)
6/26/2018	<0.01						
6/27/2018		<0.01	<0.01		<0.01		<0.01
6/28/2018				<0.01		<0.01	
7/31/2018						<0.01	
8/1/2018							<0.01
8/23/2018						<0.01	<0.01
9/19/2018						<0.01	<0.01
10/29/2018						<0.01	<0.01
11/28/2018						<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01			
12/19/2018					<0.01		0.0018 (J)
12/20/2018		0.003 (J)				<0.01	
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)		
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)
10/15/2019	0.00098 (J)						
10/16/2019			<0.01				<0.01
12/3/2019						<0.01	
12/4/2019		<0.01		<0.01	0.0014 (J)		
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)	
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)		
8/20/2020						0.001 (J)	0.00064 (J)
9/15/2020	<0.01		<0.01				
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01
3/2/2021	<0.01					<0.01	<0.01
3/3/2021		<0.01	<0.01	<0.01			
3/4/2021					0.002 (J)		
9/23/2021						<0.01	<0.01
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)		
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01
2/3/2022			<0.01				
2/4/2022		<0.01					
8/23/2022	<0.01						<0.01
8/24/2022			<0.01	<0.01			
8/25/2022		<0.01			<0.01	<0.01	
1/24/2023					<0.01		
1/25/2023		<0.01				<0.01	
1/26/2023	<0.01		<0.01	<0.01			<0.01
8/31/2023				<0.01	<0.01		

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	<0.01	<0.01	<0.01			<0.01	<0.01
Mean	0.009083	0.009158	0.01053	0.009953	0.005195	0.008646	0.008207
Std. Dev.	0.002748	0.002544	0.002294	0.00149	0.004228	0.003309	0.003685
Upper Lim.	0.01	0.01	0.02	0.014	0.01	0.01	0.01
Lower Lim.	0.0016	0.003	0.01	0.0051	0.0014	0.0014	0.0018

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-51I	PZ-61I
3/15/2018	<0.01			
5/1/2018	<0.01			
6/28/2018	0.0023 (J)			
8/1/2018	0.0046 (J)			
8/10/2018		0.0017 (J)		
8/23/2018		<0.01		
9/19/2018		<0.01		
10/29/2018	<0.01	<0.01		
11/28/2018	<0.01	<0.01		
12/19/2018	<0.01			
12/20/2018		<0.01		
1/16/2019	<0.01			
1/17/2019		<0.01		
1/19/2019			<0.01	
2/13/2019		<0.01		
8/29/2019	<0.01	<0.01		
10/16/2019	0.0005 (J)	<0.01		
10/18/2019			<0.01	
3/4/2020	0.00071 (J)	<0.01		
8/20/2020	0.00065 (J)	<0.01	<0.01	
9/17/2020	0.00098 (J)	<0.01	0.00098 (J)	
3/4/2021	0.001 (J)	<0.01	0.0008 (J)	
9/27/2021	<0.01		<0.01	0.0077
9/28/2021		<0.01		
2/2/2022		<0.01	<0.01	<0.01
2/3/2022	<0.01			
8/24/2022	<0.01		<0.01	<0.01
8/25/2022		<0.01		
1/25/2023	<0.01	<0.01		
1/26/2023			<0.01	<0.01
8/31/2023				<0.01
9/6/2023		<0.01		
9/8/2023	<0.01		<0.01	
Mean	0.006881	0.009563	0.008178	0.00954
Std. Dev.	0.004281	0.001904	0.003841	0.001029
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.00098	0.0017	0.00098	0.0077

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.0006 (J)			
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)		
11/17/2016	0.0086 (J)						
11/18/2016		0.0131					
11/21/2016			0.0122	<0.04	0.001 (J)		
2/21/2017	0.0079 (J)	0.0099 (J)					
2/22/2017			0.0136	0.0016 (J)	<0.001		
6/13/2017	0.0083 (J)	0.0094 (J)					
6/14/2017			0.0113	0.0015 (J)	<0.001		
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001		
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001		
3/6/2018						0.0162	<0.001
5/1/2018						0.015	0.0125 (D)
6/26/2018	0.006 (J)						
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001		0.0076 (J)
6/28/2018				0.00078 (J)		0.01	
7/31/2018						0.0098 (J)	
8/1/2018							0.004 (J)
8/23/2018						0.0093 (J)	0.0016 (J)
9/19/2018						0.0084 (J)	0.0018 (J)
10/29/2018						0.0064 (J)	0.0014 (J)
11/28/2018						0.0071 (J)	0.0016 (J)
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)			
12/19/2018					<0.001		0.0014 (J)
12/20/2018		0.0081 (J)				0.069	
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001		
8/28/2019		0.01	0.0061			0.011	0.00037 (J)
10/15/2019	0.0043 (J)						
10/16/2019			0.0058				0.00032 (J)
10/17/2019		0.011 (J)		<0.04	<0.001	0.0098 (J)	
12/3/2019						0.0076	
12/4/2019		0.0086		0.0012 (J)	<0.001		
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)
3/5/2020				0.0011 (J)	<0.001	0.0091	
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001		
8/20/2020						0.022	0.00043 (J)
9/15/2020	0.0035 (J)		0.0064				
9/16/2020		0.008		0.0008 (J)	<0.001	0.0049 (J)	0.00053 (J)
3/2/2021	0.003 (J)					0.0057	0.0005 (J)
3/3/2021		0.0062	0.0095	0.0015 (J)			
3/4/2021					<0.001		
9/23/2021						0.0049 (J)	<0.001
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001		
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	0.0054	<0.001
2/3/2022			0.0077				
2/4/2022		0.0076					
8/23/2022	0.00342						<0.001
8/24/2022			0.0066	0.00163			
8/25/2022		0.0079			<0.001	0.00357	
1/24/2023					<0.001		
1/25/2023		0.00711				0.00258	
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/31/2023				0.00183	<0.001		
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.001
Mean	0.005039	0.008916	0.008172	0.007016	0.001075	0.01143	0.002026
Std. Dev.	0.00211	0.002396	0.002486	0.01422	0.0003354	0.01401	0.002969
Upper Lim.	0.005891	0.01028	0.009386	0.00163	0.0025	0.01235	0.001516
Lower Lim.	0.003686	0.007556	0.006679	0.0008	0.001	0.005405	0.0004522

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/15/2018	1.3						
5/1/2018	1.4						
6/28/2018	1.3						
8/1/2018	1.4						
8/3/2018				0.041			
8/10/2018		0.0043 (J)					
8/23/2018		0.0026 (J)					
9/19/2018		0.0028 (J)					
10/29/2018	1.4	0.0015 (J)					
11/28/2018	1.4	0.0012 (J)					
12/19/2018	1.5						
12/20/2018		<0.001					
1/16/2019	1.4						
1/17/2019		<0.001					
1/19/2019				0.018			
2/13/2019		<0.001					
8/29/2019	1.3	0.00063 (J)					
10/16/2019	1.4	<0.001					
10/18/2019				0.017			
3/4/2020	1.5	<0.001					
8/20/2020	1.4	<0.001		0.02			
9/17/2020	1.4	0.00046 (J)		0.022			
10/27/2020			0.00041 (J)	0.02			
3/3/2021			0.0004 (J)				
3/4/2021	1.4	<0.001		0.019			
9/27/2021	1.3			0.02			0.45
9/28/2021		<0.001	<0.001		0.39	3.5	
2/2/2022		<0.001		0.023			0.51
2/3/2022	1.5		<0.001		0.43	3.4	
8/24/2022	1.42		0.000306 (J)	0.0239	0.503	3.57	0.562
8/25/2022		<0.001					
1/25/2023	1.35	<0.001					
1/26/2023			<0.001	0.0231	0.518	3.64	0.604
8/31/2023							0.757
9/6/2023		0.000317 (J)	0.000427 (J)				
9/8/2023	1.38			0.0259	0.556	3.79	
Mean	1.392	0.001306	0.000649	0.02274	0.4794	3.58	0.5766
Std. Dev.	0.0633	0.0009458	0.0003306	0.006306	0.06773	0.1471	0.1162
Upper Lim.	1.42	0.0015	0.001	0.0259	0.5929	3.827	0.7712
Lower Lim.	1.35	0.00063	0.000306	0.018	0.3659	3.333	0.382

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.019
8/25/2022	0.0232
1/30/2023	0.028
9/8/2023	0.0309
Mean	0.02528
Std. Dev.	0.005252
Upper Lim.	0.0372
Lower Lim.	0.01335

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				1.01 (U)			
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)		
11/17/2016	1.2 (U)						
11/18/2016		0.571 (U)					
11/21/2016			1.59	0.201 (U)	0.0569 (U)		
2/21/2017	1.31	1.28 (U)					
2/22/2017			1.64	0.57 (U)	1.07 (U)		
6/13/2017	0.738 (U)	0.521 (U)					
6/14/2017			1.32	0.726 (U)	0.459 (U)		
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)		
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)		
3/6/2018						1.25 (U)	1.75 (J+X)
5/1/2018						0.423 (U)	2.02 (J+XD)
6/26/2018	0.968 (U)						
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)
6/28/2018				1.4 (UX)		0.283 (U)	
7/31/2018						0.243 (U)	
8/1/2018							0.638 (U)
8/23/2018						1.1 (U)	1.14 (U)
9/19/2018						0.369 (U)	1.45 (UX)
10/29/2018						0.401 (U)	1.09 (U)
11/28/2018						0.901 (U)	1.67 (UX)
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)			
12/19/2018					1.21 (U)		1.3
12/20/2018		0.527 (U)				0.657 (U)	
8/27/2019	0.91 (U)			1.35	0.86 (U)		
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)
10/15/2019	1.06 (U)						
10/16/2019			1.69 (U)				1.28 (U)
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)	
3/4/2020	1.34	1.18	1.23				0.862 (U)
3/5/2020				1.35	0.483 (U)	0.921 (U)	
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)		
8/20/2020						0.501 (U)	1.64
9/15/2020	0.205 (U)		1.23 (U)				
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)			
3/4/2021					0.32 (U)		
9/23/2021						0.619 (U)	0.527 (U)
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)		
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)
2/3/2022			0.798 (U)				
2/4/2022		0.335 (U)					
8/23/2022	1.9						3.74
8/24/2022			1.97	3.26			
8/25/2022		1.79			1.32	1.65	
1/24/2023					2.25		
1/25/2023		1.53 (U)				1.29 (U)	
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28
9/22/2023				2.71	2.33		
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
Mean	1.251	1.145	1.544	1.213	0.9333	0.665	1.384
Std. Dev.	1.026	0.8041	0.5385	0.8317	0.6635	0.4218	0.9213
Upper Lim.	1.649	1.488	1.859	1.571	1.322	0.9045	1.907
Lower Lim.	0.6555	0.6539	1.229	0.7037	0.5448	0.4255	0.8611

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			0.577 (U)				
3/15/2018	1.31						
5/1/2018	1.69 (J+X)		0.27 (U)				
6/28/2018	1.04 (U)						
8/1/2018	1.67						
8/10/2018		1.91					
8/23/2018		1.86 (J+X)					
9/19/2018		1.64 (UX)					
10/29/2018	0.992 (U)	1.36 (U)					
11/28/2018	1.76 (UX)	1.07 (U)					
12/19/2018	2.15 (J+X)						
12/20/2018		0.892 (U)					
1/16/2019	1.39						
1/17/2019		1.1 (U)					
1/19/2019						1.86	
2/13/2019		1.68					
8/29/2019	1.33	1.44					
10/16/2019	2.51	2.13					
10/18/2019						11.7 (U)	
3/4/2020	1.73	2.3					
8/20/2020	2.78	2.97				0.937 (U)	
9/17/2020	0.717 (U)	2.04				1.76	
3/3/2021					2.54		
3/4/2021	1.22	2.04				0.966 (U)	
3/5/2021				2.11			
9/27/2021	2.07					0.771 (U)	
9/28/2021		3.28	0.526 (U)	1.05	1.89		1.66
2/2/2022		2.33	0.244 (U)			0.992 (U)	
2/3/2022	1.15			1	2.23		1.33
8/24/2022	1.87				3.33	0.625	1.16
8/25/2022		4.97	1.6	2.26			
1/25/2023	5.71	7.94	2.49 (U)				
1/26/2023					3.7	1.53 (U)	4.03
1/27/2023				2.66 (U)			
9/22/2023	1.55		0.477 (U)	2.12		5.22	3.71
9/26/2023		6.36			1.27		
Mean	1.823	2.595	0.8834	1.867	2.493	2.636	2.378
Std. Dev.	1.076	1.872	0.8433	0.682	0.9042	3.453	1.378
Upper Lim.	2.126	3.045	1.804	2.804	3.735	3.695	4.688
Lower Lim.	1.254	1.537	0.1445	0.9298	1.251	0.719	0.06812

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-601	PZ-611
9/27/2021		1.14 (U)
9/28/2021	2.79	
2/2/2022		1.16
2/3/2022	2.46	
8/24/2022	3.5	2.91
1/26/2023	5.31	3.2
9/22/2023	4.48	0.868 (U)
Mean	3.708	1.856
Std. Dev.	1.184	1.106
Upper Lim.	5.692	3.942
Lower Lim.	1.724	0.4133

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.43			
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)		
11/17/2016	0.27 (J)						
11/18/2016		0.19 (J)					
11/21/2016			0.37	0.24 (J)	0.04 (J)		
2/21/2017	0.6	0.35					
2/22/2017			0.37	0.2 (J)	0.08 (J)		
6/13/2017	0.19 (J)	0.19 (J)					
6/14/2017			0.38	0.15 (J)	0.09 (J)		
9/27/2017	0.5	0.4	0.4	0.41	<0.1		
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1		
3/6/2018						0.94	1.1
5/1/2018						<0.1	0.595 (D)
6/26/2018	0.15 (J)						
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)
6/28/2018				0.93 (J+X)		0.69 (J+X)	
7/31/2018						<0.1	
8/1/2018							0.48
8/23/2018						<0.1	0.34
9/19/2018						<0.1	0.23 (J)
10/29/2018						<0.1	<0.1
11/28/2018						<0.1	0.063 (J)
12/18/2018	0.29 (J)		0.26 (J)	0.54			
12/19/2018					0.23 (J)		0.28 (J)
12/20/2018		0.26 (J)				0.12 (J)	
3/19/2019		0.2 (J)					<0.1
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)	
8/27/2019	0.15 (J)			0.12 (J)	<0.1		
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.1
10/15/2019	0.16 (J)						
10/16/2019			0.11 (J)				0.076 (J)
12/3/2019						0.19 (J)	
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)		
3/4/2020	0.07 (J)	<0.3	<0.3				<0.1
3/5/2020				0.051 (J)	<0.1	<0.1	
8/19/2020	0.17	0.19	0.12	0.14	<0.1		
8/20/2020						<0.1	<0.1
9/15/2020	0.15		0.057 (J)				
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.1
3/2/2021	0.15					0.067 (J)	<0.1
3/3/2021		0.24	0.13	0.13			
3/4/2021					<0.1		
9/23/2021						0.06 (J)	<0.1
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1		
2/2/2022	0.15			0.1	<0.1	<0.1	<0.1
2/3/2022			0.11				
2/4/2022		0.14					
8/23/2022	0.186						<0.1
8/24/2022			0.103	0.318			
8/25/2022		0.234			0.138	0.166	
1/24/2023					0.082 (J)		
1/25/2023		0.152				0.163	

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
1/26/2023	0.202		0.0935 (J)	0.167			0.117
8/23/2023				0.116	0.0477 (J)		
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243
Mean	0.2124	0.2141	0.17	0.2501	0.1034	0.1761	0.2283
Std. Dev.	0.1265	0.08032	0.1177	0.2052	0.0383	0.2193	0.2452
Upper Lim.	0.25	0.2597	0.2114	0.3243	0.11	0.166	0.28
Lower Lim.	0.15	0.1685	0.09945	0.1374	0.09	0.067	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			<0.3				
3/15/2018	0.84 (JX)						
5/1/2018	0.91		<0.3				
6/28/2018	1.1 (J+X)						
8/1/2018	2						
8/10/2018		1.6 (O)					
8/23/2018		0.32					
9/19/2018		0.22 (J)					
10/29/2018	0.24 (J)	0.14 (J)					
11/28/2018	0.41	0.24 (J)					
12/19/2018	0.54						
12/20/2018		0.3					
1/16/2019	1.1						
1/17/2019		0.23 (J)					
1/19/2019						<0.1	
2/13/2019		<0.3					
3/20/2019	0.21 (J)	0.135 (JD)					
8/29/2019	0.41	0.087 (J)					
10/16/2019	0.39	0.22 (J)					
10/18/2019						<0.1	
3/4/2020	0.14 (J)	0.1 (J)					
8/20/2020	0.39	0.23				<0.1	
9/17/2020	0.46	0.074 (J)				<0.1	
10/27/2020				0.28	0.21	<0.1	
3/3/2021					0.28		
3/4/2021	0.6	0.28				0.061 (J)	
3/5/2021				0.16			
9/27/2021	0.43					<0.1	
9/28/2021		0.12	0.08 (J)	0.11	0.26		0.97
2/2/2022		0.098 (J)	0.065 (J)			<0.1	
2/3/2022	0.42			0.15	0.27		1.8
8/24/2022	0.497				0.318	0.148	1.09
8/25/2022		0.157	0.184	0.106			
1/25/2023	0.432	0.169	0.13				
1/26/2023					0.354	0.12	1.19
1/27/2023				0.151 (J)			
8/24/2023	0.499		0.195	0.193		0.0744 (J)	1.1
8/25/2023		0.188 (J)			0.395		
Mean	0.6009	0.182	0.1791	0.1643	0.2981	0.1003	1.23
Std. Dev.	0.4231	0.07363	0.09553	0.0591	0.06224	0.02209	0.3281
Upper Lim.	0.7652	0.2251	0.1933	0.2345	0.3721	0.12	1.788
Lower Lim.	0.3657	0.1389	0.06826	0.09408	0.2242	0.0744	0.8055

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I	PZ-63I
9/27/2021		0.067 (J)	
9/28/2021	1.6		
2/2/2022		<0.1	
2/3/2022	2.3		
2/4/2022			0.14
8/24/2022	1.32	0.103	
8/25/2022			0.235
1/26/2023	1.66	0.184	
1/30/2023			0.23
8/23/2023		0.188	
8/24/2023	1.32		0.252
Mean	1.64	0.1284	0.2143
Std. Dev.	0.4007	0.05446	0.05039
Upper Lim.	2.312	0.2124	0.3286
Lower Lim.	0.9685	0.03122	0.09985

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002			
9/8/2016	<0.002	<0.002	0.0004 (J)				
11/17/2016	<0.002						
11/18/2016		<0.002					
11/21/2016			0.0006 (J)	<0.002			
2/21/2017	<0.002	<0.002					
2/22/2017			0.0005 (J)	<0.002			
6/13/2017	<0.002	<0.002					
6/14/2017			0.0004 (J)	<0.002			
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002			
2/14/2018	<0.002	<0.002	<0.005 (o)	<0.002			
3/6/2018					<0.002	<0.002	
3/15/2018							<0.002
5/1/2018					<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002						
6/27/2018		<0.002	0.00032 (J)			<0.002	
6/28/2018				<0.002	<0.002		0.00054 (J)
7/31/2018					<0.002		
8/1/2018						<0.002	<0.002
8/23/2018					<0.002	<0.002	
9/19/2018					<0.002	<0.002	
10/29/2018					<0.002	<0.002	0.0003 (J)
11/28/2018					<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00038 (J)	<0.002			
12/19/2018						<0.002	<0.002
12/20/2018		<0.002			<0.002		
1/16/2019							<0.002
8/27/2019	0.00011 (J)			<0.002			
8/28/2019		<0.002	0.00027 (J)		<0.002	<0.002	
8/29/2019							4.9E-05 (J)
10/15/2019	<0.002						
10/16/2019			0.00027 (J)			<0.002	8.5E-05 (J)
12/3/2019					<0.002		
12/4/2019		6.3E-05 (J)		<0.002			
3/4/2020	<0.002	<0.002	0.0003 (J)			0.00012 (J)	0.0001 (J)
3/5/2020				<0.002	0.00026 (J)		
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002			
8/20/2020					0.00021 (J)	4.8E-05 (J)	6.7E-05 (J)
9/15/2020	<0.002		0.00029 (J)				
9/16/2020		<0.002		0.00011 (J)	5.3E-05 (J)	6.6E-05 (J)	
9/17/2020							0.00015 (J)
3/2/2021	<0.002				<0.002	<0.002	
3/3/2021		<0.002	0.00033 (J)	<0.002			
3/4/2021							0.00016 (J)
9/23/2021					<0.002	<0.002	
9/27/2021							<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	
2/3/2022			<0.002				<0.002
2/4/2022		<0.002					
8/23/2022	<0.002					<0.002	
8/24/2022			<0.002	<0.002			<0.002

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002		
1/25/2023		<0.002			0.000595 (J)		<0.002
1/26/2023	<0.002		<0.002	<0.002		<0.002	
8/31/2023				<0.002			
9/6/2023	<0.002	<0.002	<0.002		<0.002	<0.002	
9/8/2023							<0.002
Mean	0.001901	0.001898	0.0008283	0.001901	0.001656	0.001712	0.001234
Std. Dev.	0.0004336	0.0004444	0.0007545	0.0004336	0.0007119	0.0007042	0.0009282
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00011	6.3E-05	0.00029	0.00011	0.000595	0.00012	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-61I
8/10/2018	<0.002					
8/23/2018	<0.002					
9/19/2018	<0.002					
10/29/2018	<0.002					
11/28/2018	<0.002					
12/20/2018	<0.002					
1/17/2019	<0.002					
1/19/2019				<0.002		
2/13/2019	<0.002					
8/29/2019	<0.002					
10/16/2019	<0.002					
10/18/2019				<0.002		
3/4/2020	<0.002					
8/20/2020	<0.002			<0.002		
9/17/2020	<0.002			0.00036 (J)		
3/3/2021			0.00013 (J)			
3/4/2021	4.2E-05 (J)			0.00017 (J)		
3/5/2021		5.6E-05 (J)				
9/27/2021				<0.002		0.0019
9/28/2021	<0.002	<0.002	<0.002		<0.005	
2/2/2022	<0.002			<0.002		<0.002
2/3/2022		<0.002	<0.002		<0.005	
8/24/2022			<0.002	<0.002	0.000894 (J)	0.00113 (J)
8/25/2022	<0.002	<0.002				
1/25/2023	<0.002					
1/26/2023			<0.002	<0.002	0.000895 (J)	<0.002
1/27/2023		<0.002				
8/31/2023						<0.002
9/6/2023	<0.002		<0.002			
9/8/2023		<0.002		<0.002	0.00086 (J)	
Mean	0.001897	0.001676	0.001688	0.001653	0.00253	0.001806
Std. Dev.	0.0004492	0.0007936	0.0007634	0.0007329	0.002255	0.0003804
Upper Lim.	0.002	0.002	0.002	0.002	0.005	0.002
Lower Lim.	4.2E-05	5.6E-05	0.00013	0.00036	0.00086	0.00113

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016			0.0117 (J)				
9/8/2016	0.0021 (J)	0.004 (J)		<0.05			
11/18/2016	<0.01						
11/21/2016		0.0039 (J)	0.0108 (J)	<0.05			
2/21/2017	<0.01						
2/22/2017		0.0043 (J)	0.0103 (J)	0.0023 (J)			
6/13/2017	0.0017 (J)						
6/14/2017		0.0036 (J)	0.0101 (J)	0.0022 (J)			
9/27/2017	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)			
2/14/2018	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)			
3/6/2018					0.0031 (J)	0.0399 (J)	
3/15/2018							0.038 (J)
5/1/2018					0.0038 (J)	0.0475 (JD)	0.042 (J)
6/27/2018	0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)	
6/28/2018			0.013 (J)		0.0028 (J)		0.04 (J)
7/31/2018					<0.25 (o)		
8/1/2018						0.039 (J)	0.036 (J)
8/23/2018					0.0033 (J)	0.044 (J)	
9/19/2018					0.0033 (J)	0.043 (J)	
10/29/2018					0.003 (J)	0.039 (J)	0.041 (J)
11/28/2018					0.0035 (J)	0.044 (J)	0.041 (J)
12/18/2018		0.0032 (J)	0.014 (J)				
12/19/2018				0.0018 (J)		0.043 (J)	0.043 (J)
12/20/2018	0.0015 (J)				0.003 (J)		
1/16/2019							0.042 (J)
8/27/2019			0.016 (J)	0.0022 (J)			
8/28/2019	0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044	
8/29/2019							0.039
10/16/2019		0.0029 (J)				0.038	0.034
12/3/2019					0.0033 (J)		
12/4/2019	0.0014 (J)		0.013 (J)	0.0022 (J)			
3/4/2020	0.0014 (J)	0.0029 (J)				0.042	0.042
3/5/2020			0.016 (J)	0.0022 (J)	0.003 (J)		
8/19/2020	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)			
8/20/2020					0.0034 (J)	0.044	0.04
9/15/2020		0.003 (J)					
9/16/2020	0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039	
9/17/2020							0.052
3/2/2021					0.0043 (J)	0.044	
3/3/2021	0.0012 (J)	0.0032 (J)	0.014 (J)				
3/4/2021				0.002 (J)			0.05
9/23/2021					0.0023 (J)	0.042	
9/27/2021							0.038
9/28/2021	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			
2/2/2022			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	
2/3/2022		0.0026 (J)					0.038
2/4/2022	0.001 (J)						
8/23/2022						0.0474	
8/24/2022		0.00304 (J)	0.0238				0.0428
8/25/2022	<0.01			0.0043 (J)	<0.01		
1/24/2023				0.007 (J)			
1/25/2023	<0.01				0.00333 (J)		0.0542

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023		0.00331 (J)	0.0279			0.0506	
8/31/2023			0.0253	0.00392 (J)			
9/6/2023	<0.01	0.00349 (J)			<0.01	0.0532	
9/8/2023							0.0393
Mean	0.003726	0.003323	0.01616	0.005085	0.003402	0.04338	0.0417
Std. Dev.	0.00386	0.0004437	0.005502	0.007125	0.0007362	0.003961	0.005202
Upper Lim.	0.01	0.003583	0.01896	0.0043	0.003833	0.04563	0.04439
Lower Lim.	0.0014	0.003063	0.01284	0.0021	0.002971	0.04113	0.03864

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-61I
3/6/2018		0.0046 (J)					
5/1/2018		0.0049 (J)					
8/10/2018	0.0087 (J)						
8/23/2018	0.0089 (J)						
9/19/2018	0.005 (J)						
10/29/2018	0.0048 (J)						
11/28/2018	0.0052 (J)						
12/20/2018	0.0042 (J)						
1/17/2019	0.0039 (J)						
1/19/2019					0.019 (J)		
2/13/2019	<0.05						
8/29/2019	0.0052 (J)						
10/16/2019	0.0023 (J)						
10/18/2019					0.019 (J)		
3/4/2020	0.002 (J)						
8/20/2020	0.0022 (J)				0.019 (J)		
9/17/2020	0.0058 (J)				0.021 (J)		
3/3/2021				0.0093 (J)			
3/4/2021	0.003 (J)				0.026 (J)		
3/5/2021			0.019 (J)				
9/27/2021					0.02 (J)		0.0095 (J)
9/28/2021	0.0035 (J)	0.0048 (J)	0.02 (J)	0.0096 (J)		0.041	
2/2/2022	0.0041 (J)	0.0058 (J)			0.021 (J)		0.011 (J)
2/3/2022			0.024 (J)	0.0096 (J)		0.041	
8/24/2022				0.0042 (J)	0.0222	0.0488	0.00913 (J)
8/25/2022	0.0162	0.00652 (J)	0.0255				
1/25/2023	0.0186	0.00728 (J)					
1/26/2023				0.00883 (J)	0.0247	0.0553	0.0123
1/27/2023			0.0274				
8/31/2023							0.0106
9/6/2023	0.0131			0.00667 (J)			
9/8/2023		0.0056 (J)	0.0232		0.0221	0.0468	
Mean	0.007458	0.005643	0.02318	0.008033	0.0214	0.04658	0.01051
Std. Dev.	0.006342	0.0009854	0.003208	0.002177	0.002421	0.005985	0.001263
Upper Lim.	0.008695	0.006813	0.02759	0.01024	0.02356	0.05661	0.01262
Lower Lim.	0.003692	0.004472	0.01878	0.005163	0.01924	0.03655	0.00839

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.007 (J)
8/25/2022	0.00509 (J)
1/30/2023	0.0066 (J)
9/8/2023	0.00516 (J)
Mean	0.005963
Std. Dev.	0.0009812
Upper Lim.	0.00819
Lower Lim.	0.003735

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	PZ-51I
9/6/2016				<0.0002		
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002	
11/17/2016	<0.0002					
11/18/2016		<0.0002				
11/21/2016			<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002	<0.0002				
2/22/2017			<0.0002	<0.0002	<0.0002	
6/13/2017	<0.0002	5E-05 (J)				
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)	
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)	
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/26/2018	<0.0002					
6/27/2018		<0.0002	<0.0002		<0.0002	
6/28/2018				<0.0002		
12/18/2018	<0.0002		<0.0002	<0.0002		
12/19/2018					<0.0002	
12/20/2018		<0.0002				
1/19/2019						<0.0002
8/27/2019	<0.0002			<0.0002	<0.0002	
8/28/2019		<0.0002	<0.0002			
10/18/2019						<0.0002
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)	
8/20/2020						9.9E-05 (J)
9/15/2020	<0.0002		<0.0002			
9/16/2020		<0.0002		<0.0002	<0.0002	
9/17/2020						<0.0002
3/2/2021	<0.0002					
3/3/2021		<0.0002	<0.0002	<0.0002		
3/4/2021					<0.0002	<0.0002
9/27/2021						<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/2/2022	<0.0002			<0.0002	<0.0002	<0.0002
2/3/2022			<0.0002			
2/4/2022		<0.0002				
8/23/2022	<0.0002					
8/24/2022			<0.0002	<0.0002		<0.0002
8/25/2022		<0.0002			<0.0002	
1/24/2023					<0.0002	
1/25/2023		<0.0002				
1/26/2023	<0.0002		<0.0002	<0.0002		<0.0002
8/25/2023				<0.0002	<0.0002	
8/29/2023	<0.0002	<0.0002	<0.0002			<0.0002
Mean	0.0001837	0.0001822	0.0001769	0.000176	0.0001807	0.0001899
Std. Dev.	4.662E-05	5.032E-05	5.236E-05	5.399E-05	4.308E-05	3.194E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.3E-05	5E-05	9.8E-05	8.2E-05	0.0001	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-50D
9/6/2016		<0.01					
9/8/2016	<0.01						
11/17/2016	<0.01						
11/21/2016		<0.01					
2/21/2017	<0.01						
2/22/2017		<0.01					
6/13/2017	<0.01						
6/14/2017		<0.01					
9/27/2017	<0.01	<0.01					
2/14/2018	<0.01	<0.01					
3/6/2018			<0.01	<0.01			
3/15/2018					<0.001		
5/1/2018			<0.01	<0.01 (D)	0.0022 (J)		
6/26/2018	<0.01						
6/27/2018				<0.01			
6/28/2018		<0.01	<0.01		<0.001		
7/31/2018			<0.01				
8/1/2018				<0.01	0.0033 (J)		
8/10/2018						0.0032 (J)	
8/23/2018			<0.01	<0.01		0.005 (J)	
9/19/2018			<0.01	<0.01		0.0061 (J)	
10/29/2018			<0.01	<0.01	<0.001	0.0065 (J)	
11/28/2018			<0.01	<0.01	<0.001	0.0027 (J)	
12/18/2018	<0.01	<0.01					
12/19/2018				<0.01	<0.001		
12/20/2018			<0.01			<0.01	
1/16/2019					<0.001		
1/17/2019						<0.01	
2/13/2019						<0.01	
8/27/2019	<0.01	<0.01					
8/28/2019			<0.01	<0.01			
8/29/2019					<0.001	<0.01	
10/15/2019	<0.01						
10/16/2019				<0.01	<0.001	<0.01	
12/3/2019			<0.01				
12/4/2019		<0.01					
8/19/2020	0.00081 (J)	0.00078 (J)					
8/20/2020			0.00076 (J)	<0.01	<0.001	0.0012 (J)	
9/15/2020	0.0008 (J)						
9/16/2020		0.0022 (J)	<0.01	<0.01			
9/17/2020					<0.001	0.0007 (J)	
3/2/2021	0.001 (J)		<0.01	<0.01			
3/3/2021		<0.01					
3/4/2021					<0.001	0.001 (J)	
3/5/2021							0.0017 (J)
9/23/2021			<0.01	<0.01			
9/27/2021					<0.001		
9/28/2021	0.00089 (J)	0.001 (J)				<0.01	0.0021 (J)
2/2/2022	0.0011 (J)	0.0012 (J)	<0.01	<0.01		<0.01	
2/3/2022					<0.001		0.0012 (J)
8/23/2022	0.00105			0.000296 (J)			
8/24/2022		0.00141			<0.001		

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-50D
8/25/2022			0.000424 (J)			0.000471 (J)	0.00109
1/25/2023			0.000545 (J)		<0.001	0.000609 (J)	
1/26/2023	0.00092 (J)	0.0014		0.00027 (J)			
1/27/2023							0.000817 (J)
8/31/2023		0.00111					
9/6/2023	0.00141		0.000356 (J)	0.000296 (J)		0.000782 (J)	
9/8/2023					<0.001		<0.001
Mean	0.005999	0.006617	0.008004	0.008466	0.001194	0.005459	0.001318
Std. Dev.	0.004605	0.004373	0.003971	0.003639	0.0005965	0.004128	0.0004849
Upper Lim.	0.01	0.01	0.01	0.01	0.0022	0.01	0.001932
Lower Lim.	0.00092	0.0012	0.00076	0.000296	0.001	0.000782	0.0006431

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-51D	PZ-51I	PZ-63I
1/19/2019		<0.001	
10/18/2019		<0.001	
8/20/2020		<0.001	
9/17/2020		<0.001	
3/3/2021	0.0068 (J)		
3/4/2021		<0.001	
9/27/2021		<0.001	
9/28/2021	0.0029 (J)		
2/2/2022		<0.001	
2/3/2022	0.0017 (J)		
2/4/2022			0.00092 (J)
8/24/2022	0.00171	0.000313 (J)	
8/25/2022			0.000741 (J)
1/26/2023	0.00085 (J)	0.000283 (J)	
1/30/2023			0.000803 (J)
9/6/2023	0.00142		
9/8/2023		<0.001	0.000539 (J)
Mean	0.002563	0.0008596	0.0007508
Std. Dev.	0.002181	0.0002961	0.0001595
Upper Lim.	0.0054	0.001	0.001113
Lower Lim.	0.0004734	0.000313	0.0003887

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.005			
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01		
11/17/2016	<0.005						
11/18/2016		0.0047 (J)					
11/21/2016			0.0058 (J)	<0.005	<0.01		
2/21/2017	<0.005	0.0025 (J)					
2/22/2017			0.005 (J)	<0.005	0.0017 (J)		
6/13/2017	<0.005	0.0036 (J)					
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01		
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)		
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01		
3/6/2018						<0.005	<0.005
5/1/2018						<0.005	<0.005 (D)
6/26/2018	<0.005						
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.005
6/28/2018				<0.005		<0.005	
7/31/2018						<0.005	
8/1/2018							0.0015 (J)
8/23/2018						<0.005	<0.005 (X)
9/19/2018						<0.005	0.002 (J)
10/29/2018						<0.005	<0.005
11/28/2018						<0.005	<0.005
12/18/2018	<0.005		<0.005	<0.005			
12/19/2018					0.0059 (J)		<0.005
12/20/2018		<0.005				<0.005	
8/27/2019	<0.005			0.0038 (J)	0.057		
8/28/2019		0.0017 (J)	<0.005			<0.005	<0.005
10/15/2019	<0.005						
10/16/2019			<0.005				0.0017 (J)
12/3/2019						0.0029 (J)	
12/4/2019		0.0036 (J)		0.0018 (J)	0.1		
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)				<0.005
3/5/2020				<0.005	0.1	<0.005	
5/12/2020					0.0989		
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099		
8/20/2020						<0.005	0.0016 (J)
9/15/2020	<0.005		<0.005				
9/16/2020		0.0042 (J)		<0.005	0.12	<0.005	0.002 (J)
3/2/2021	0.0021 (J)					<0.005	0.0028 (J)
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005			
3/4/2021					0.14		
9/23/2021						<0.005	<0.005
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13		
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005
2/3/2022			<0.005				
2/4/2022		<0.005					
8/23/2022	<0.005						<0.005
8/24/2022			<0.005	<0.005			
8/25/2022		<0.005			0.218	<0.005	
1/24/2023					0.198		
1/25/2023		<0.005				<0.005	
1/26/2023	<0.005		<0.005	<0.005			<0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/31/2023				<0.005	0.21		
9/6/2023	<0.005	<0.005	<0.005			<0.005	<0.005
Mean	0.004847	0.003963	0.004847	0.004658	0.1337	0.004895	0.00408
Std. Dev.	0.0006653	0.001231	0.001272	0.0008255	0.0528	0.0004696	0.001462
Upper Lim.	0.005	0.005	0.005	0.005	0.1777	0.005	0.005
Lower Lim.	0.0021	0.0025	0.0042	0.0045	0.08972	0.0029	0.002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	PZ-58I	PZ-60I	PZ-61I
3/15/2018	<0.005			
5/1/2018	<0.005			
6/28/2018	<0.005			
8/1/2018	0.0031 (J)			
10/29/2018	0.002 (J)			
11/28/2018	0.0017 (J)			
12/19/2018	<0.005			
1/16/2019	<0.005			
8/29/2019	<0.005			
10/16/2019	0.002 (J)			
3/4/2020	0.0026 (J)			
8/20/2020	0.0037 (J)			
9/17/2020	<0.005			
3/4/2021	0.0039 (J)			
9/27/2021	0.0022 (J)			0.0079
9/28/2021		0.0034 (J)	0.0049 (J)	
2/2/2022				0.0031 (J)
2/3/2022	<0.005	0.0016 (J)	0.0026 (J)	
8/24/2022	0.00176 (J)	0.00348 (J)	0.00417 (J)	0.0051
1/25/2023	0.00189 (J)			
1/26/2023		0.00265 (J)	0.0031 (J)	0.00321 (J)
8/31/2023				0.00483 (J)
9/8/2023	<0.005	0.00494 (J)	0.0043 (J)	
Mean	0.003676	0.003214	0.003814	0.004828
Std. Dev.	0.001412	0.001226	0.0009389	0.001944
Upper Lim.	0.005	0.005268	0.005387	0.008085
Lower Lim.	0.002	0.00116	0.002241	0.001571

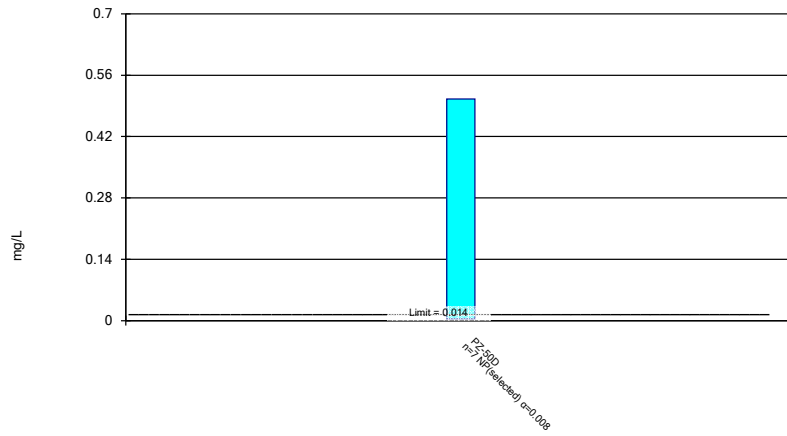
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I
9/8/2016	<0.002
11/21/2016	0.0002 (J)
2/22/2017	0.0002 (J)
6/14/2017	0.0002 (J)
9/27/2017	0.0002 (J)
2/14/2018	0.00018 (J)
6/27/2018	0.00017 (J)
12/18/2018	0.00017 (J)
8/28/2019	0.00017 (J)
10/16/2019	0.00017 (J)
3/4/2020	0.00016 (J)
8/19/2020	0.00016 (J)
9/15/2020	0.00016 (J)
3/3/2021	0.00018 (J)
9/28/2021	<0.002
2/3/2022	<0.002
8/24/2022	<0.002
1/26/2023	<0.002
9/6/2023	<0.002
Mean	0.0007537
Std. Dev.	0.00087
Upper Lim.	0.002
Lower Lim.	0.00017

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

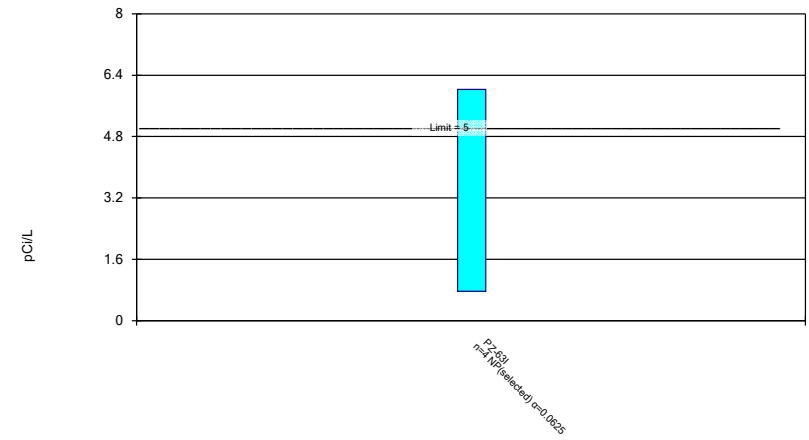


Normality testing disabled.

Constituent: Cobalt Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidence Intervals (Non-Param Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

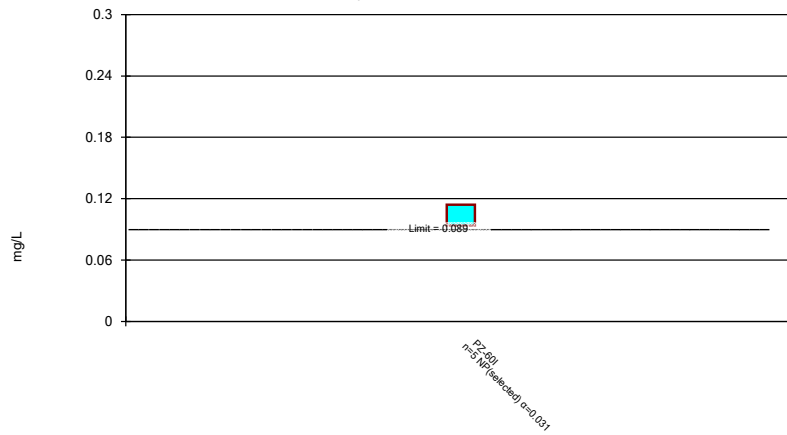


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidence Intervals (Non-Param Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

Compliance limit is exceeded.



Normality testing disabled.

Constituent: Lithium Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidence Intervals (Non-Param Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D
10/27/2020	0.0037 (J)
3/5/2021	0.0038 (J)
9/28/2021	0.2
2/3/2022	0.1
8/25/2022	0.506
1/27/2023	0.0728
9/8/2023	0.00991
Mean	0.128
Std. Dev.	0.1811
Upper Lim.	0.506
Lower Lim.	0.0037

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-631
2/4/2022	0.768
8/25/2022	1.52
1/30/2023	6.03
9/22/2023	2.31
Mean	2.657
Std. Dev.	2.335
Upper Lim.	6.03
Lower Lim.	0.768

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-601
9/28/2021	0.1
2/3/2022	0.098
8/24/2022	0.101
1/26/2023	0.114
9/8/2023	0.0936
Mean	0.1013
Std. Dev.	0.007636
Upper Lim.	0.114
Lower Lim.	0.0936

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-50	0.001312	131	58	Yes	19	10.53	n/a	0.05	NP
Cadmium (mg/L)	BRGWC-50	-0.006628	-98	-58	Yes	19	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-23S (bg)	-0.0006334	-99	-58	Yes	19	21.05	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0003364	-119	-58	Yes	19	10.53	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001008	-66	-49	Yes	17	0	n/a	0.05	NP
Selenium (mg/L)	BRGWC-32S	0.03358	137	62	Yes	20	20	n/a	0.05	NP

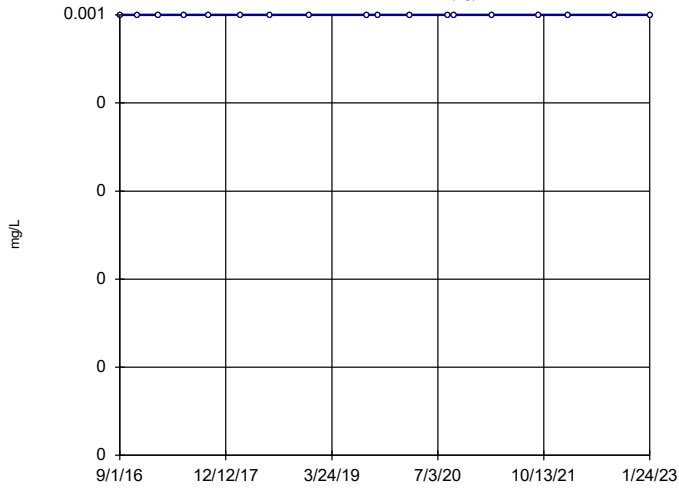
Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWC-50	0.001312	131	58	Yes	19	10.53	n/a	0.05	NP
Beryllium (mg/L)	PZ-58I	0.007552	6	10	No	5	0	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	0.003445	2	10	No	5	0	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	9	58	No	19	89.47	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWC-50	-0.006628	-98	-58	Yes	19	0	n/a	0.05	NP
Cadmium (mg/L)	PZ-60I	-0.0005838	-5	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-23S (bg)	-0.0006334	-99	-58	Yes	19	21.05	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0003364	-119	-58	Yes	19	10.53	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001008	-66	-49	Yes	17	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	16	58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001415	27	30	No	12	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-58I	0.08766	10	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-60I	0.1881	8	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-61I	0.1401	10	10	No	5	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0002474	30	58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.001146	-33	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0002928	-38	-58	No	19	26.32	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-6S (bg)	0.0001136	56	58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	PZ-60I	-0.0008267	0	10	No	5	0	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	-0.00002946	-22	-58	No	19	36.84	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWC-32S	0.03358	137	62	Yes	20	20	n/a	0.05	NP

Sen's Slope Estimator

BRGWA-12I (bg)

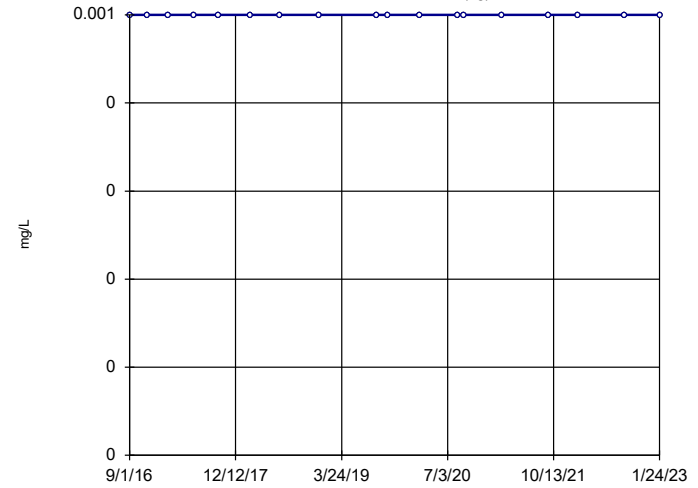


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

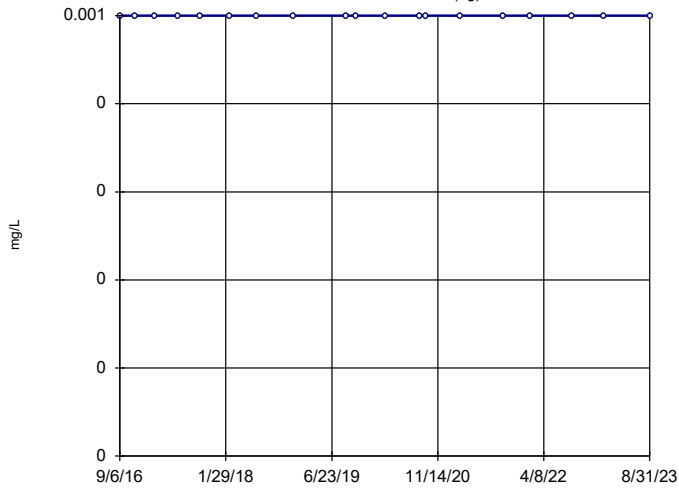


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

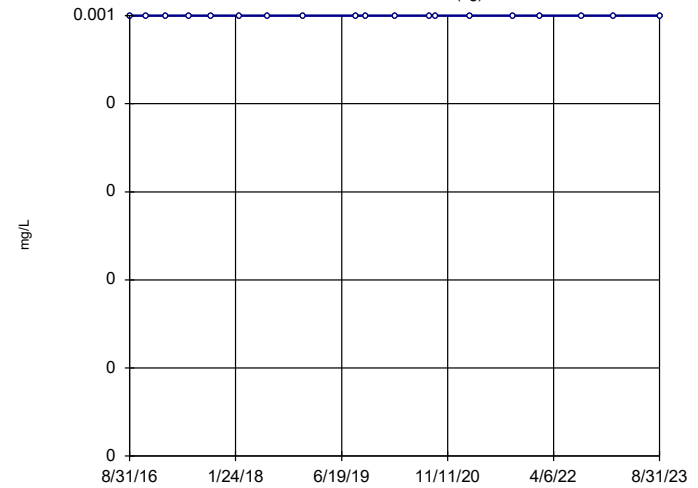


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Slope = 0
units per year.
Mann-Kendall
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Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

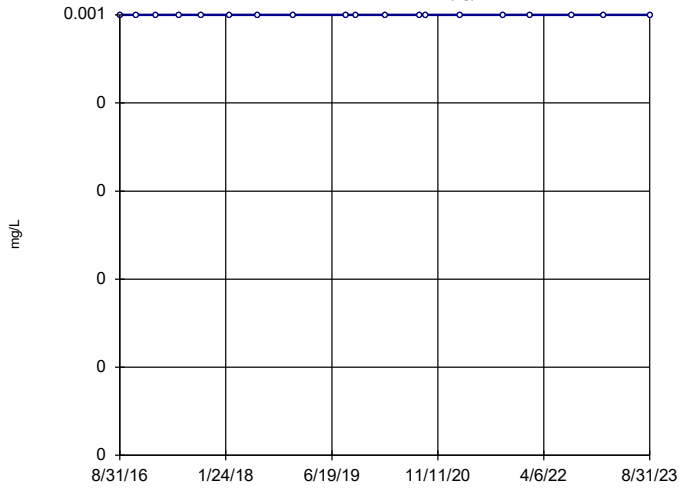


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

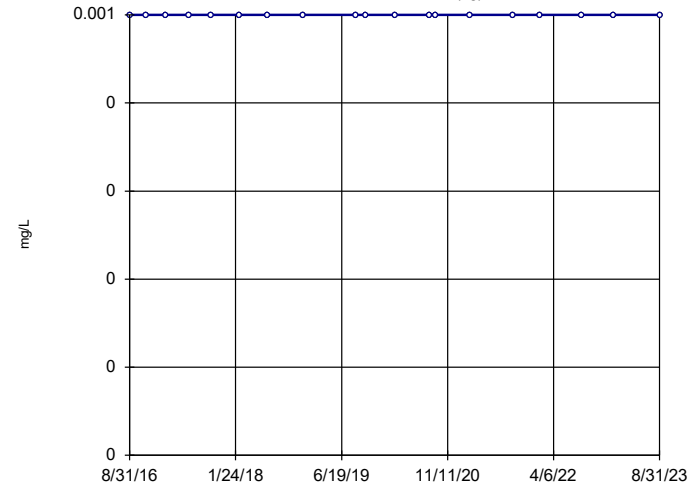


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

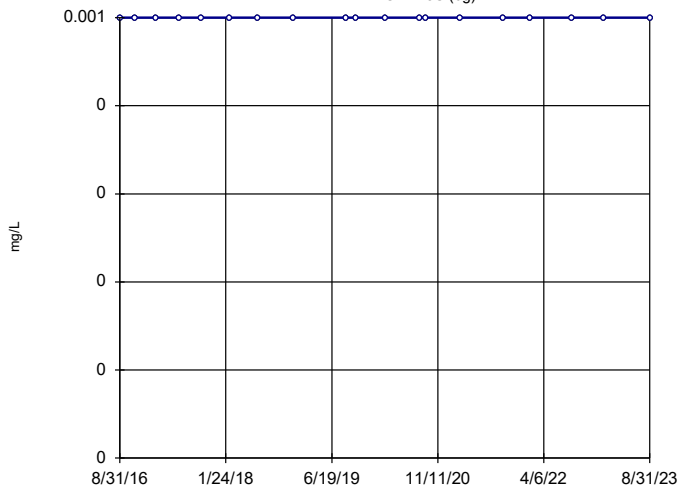


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

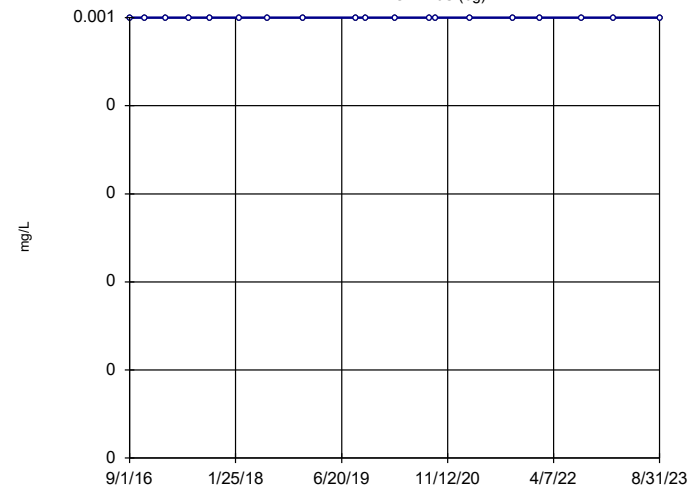


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

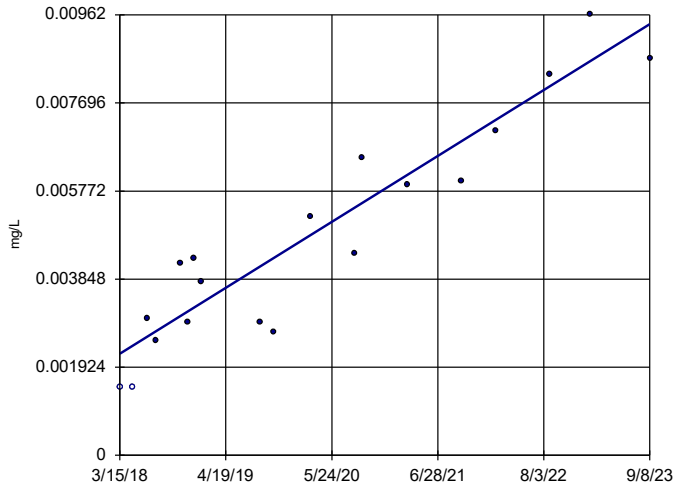


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

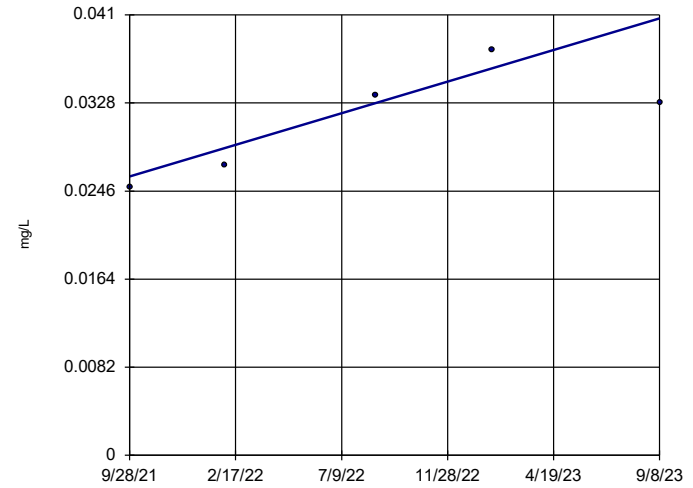


n = 19
 Slope = 0.001312
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 58
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-58I

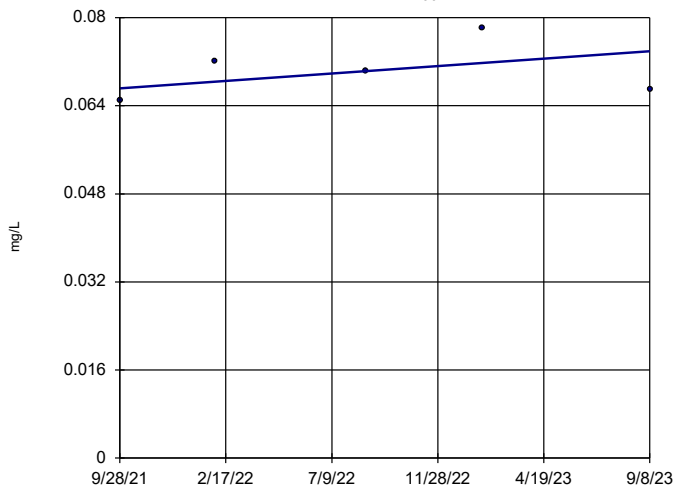


n = 5
 Slope = 0.007552
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 10
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-60I

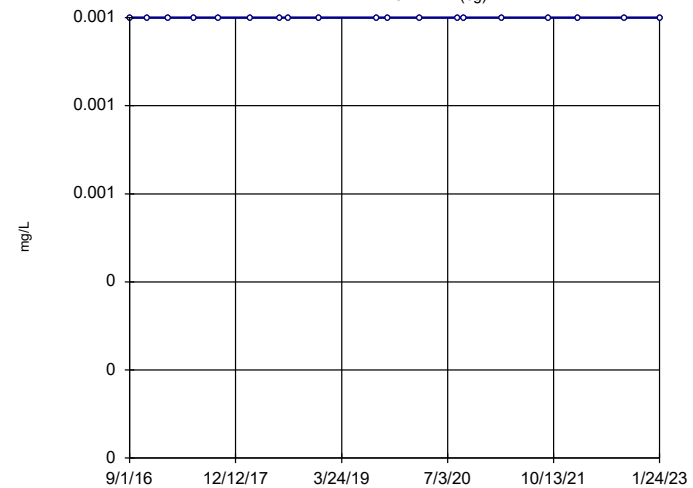


n = 5
 Slope = 0.003445
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 10
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

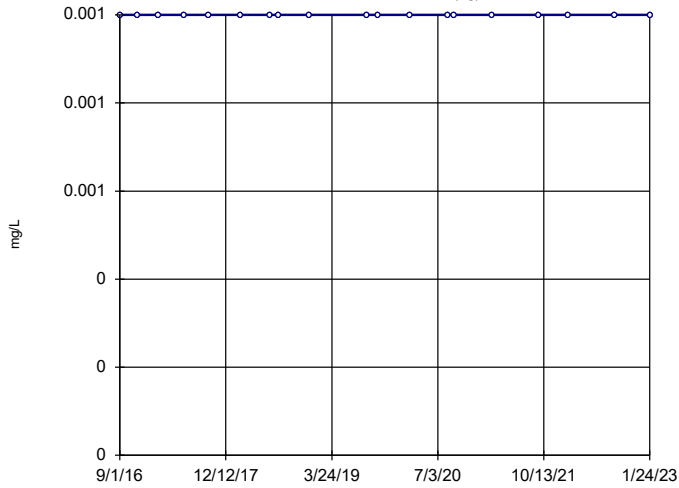


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

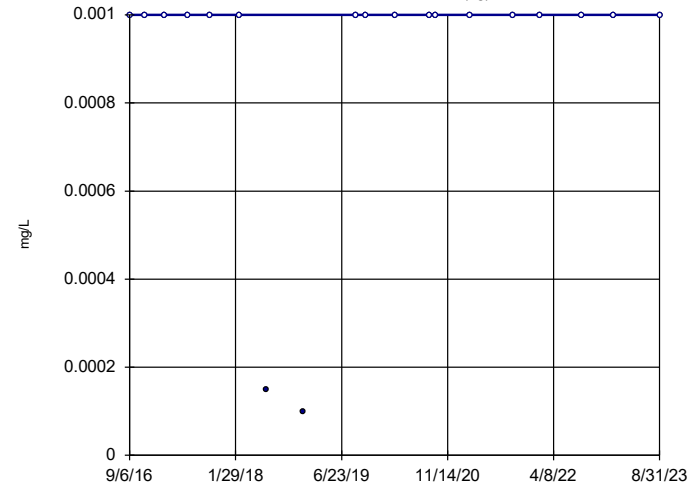


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-23S (bg)

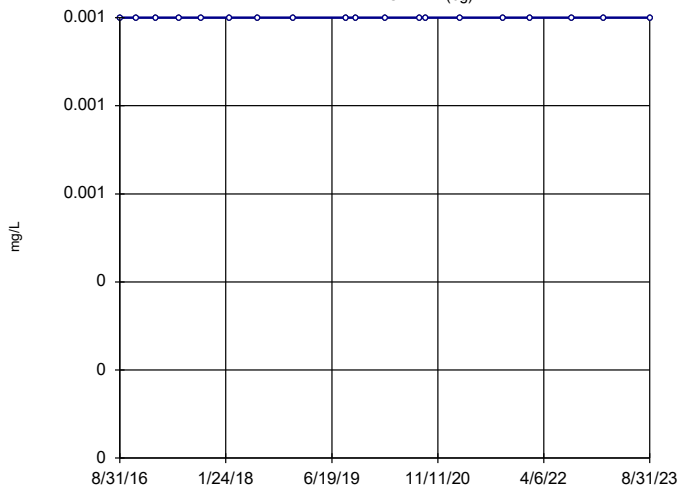


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 9
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

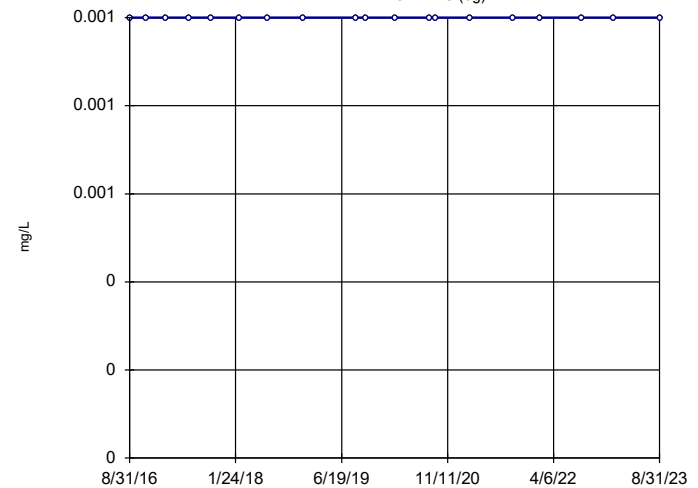


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

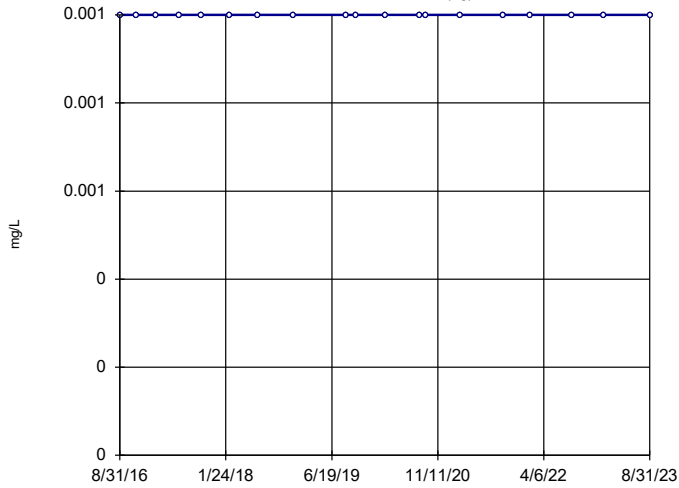


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

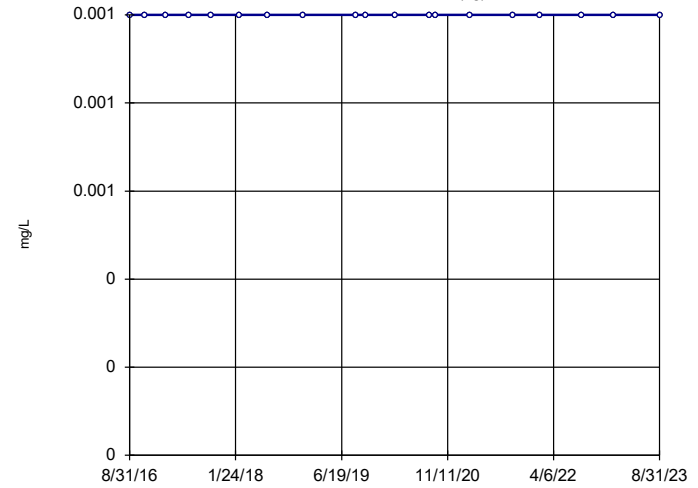


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

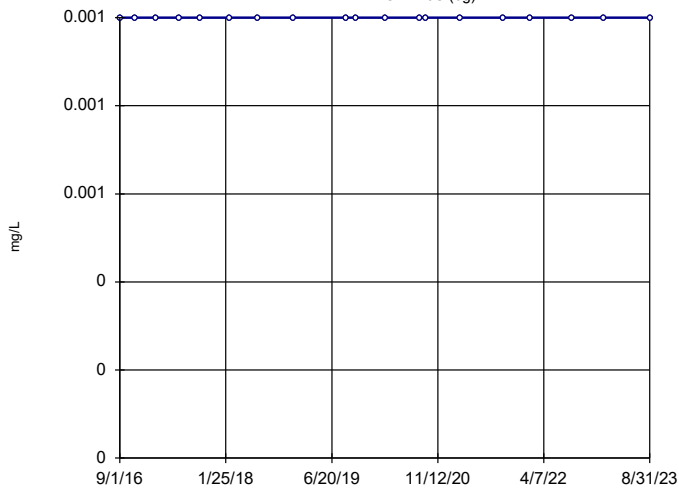


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

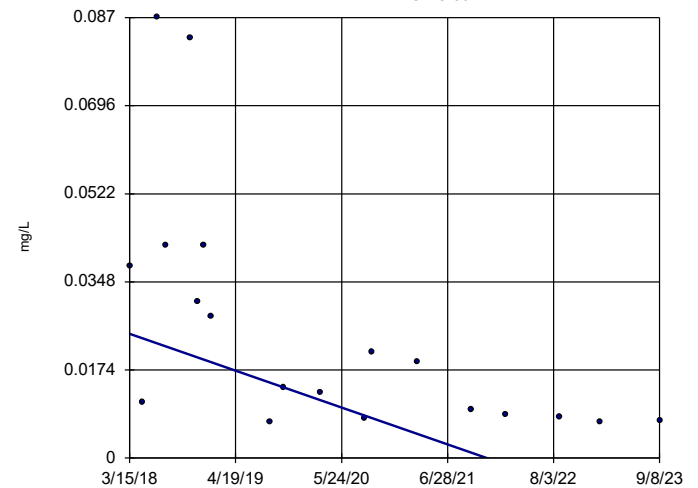


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

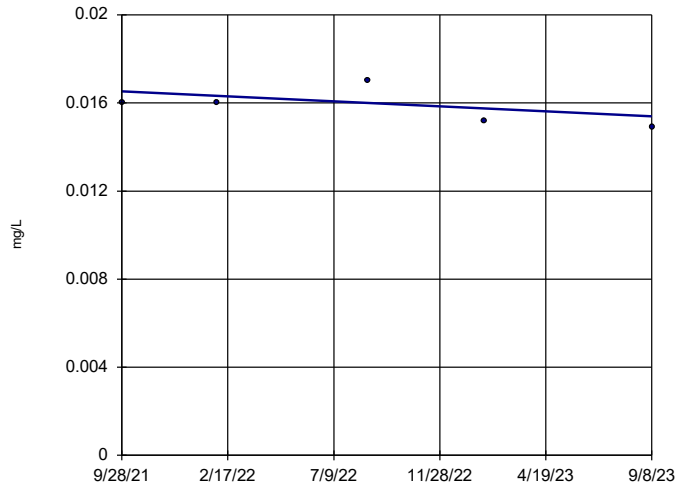


n = 19
Slope = -0.006628
units per year.
Mann-Kendall
statistic = -98
critical = -58
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-60I



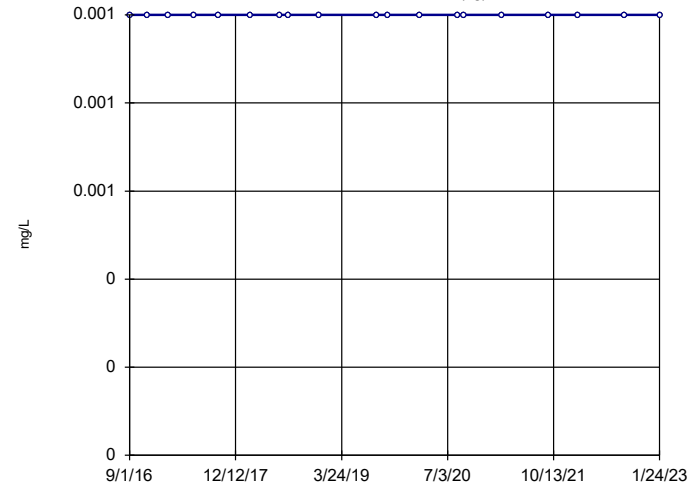
n = 5
 Slope = -0.0005838
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -10
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



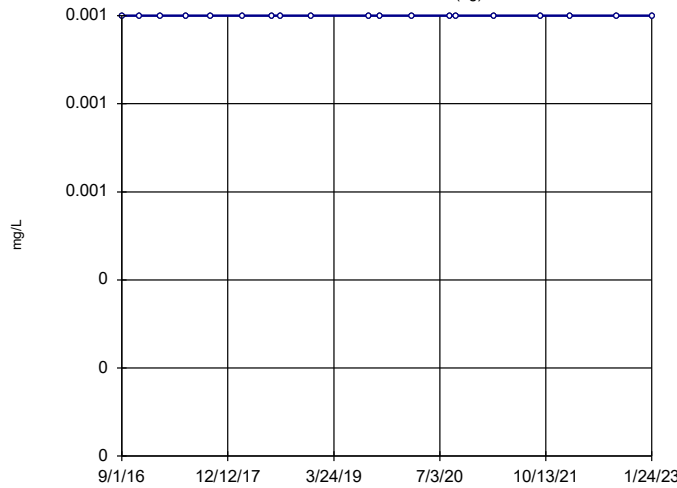
n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



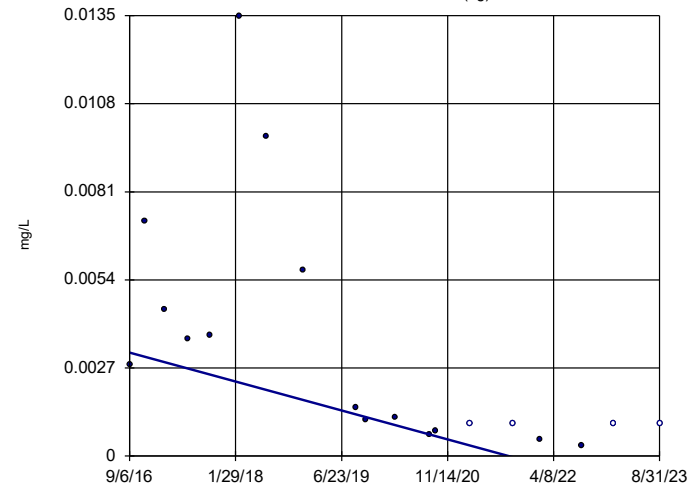
n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)

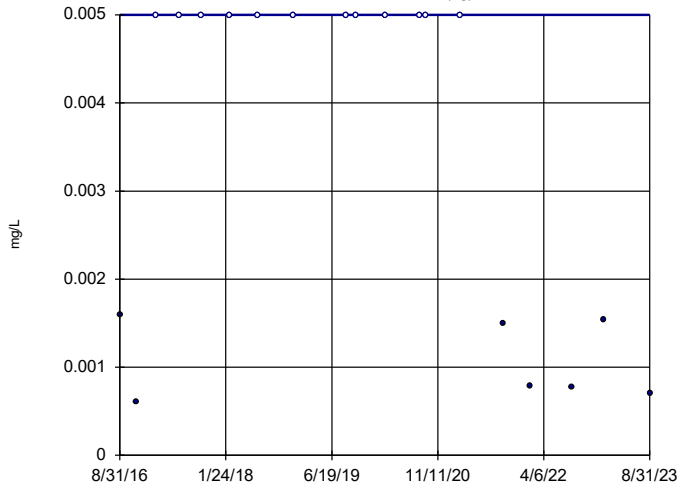


n = 19
 Slope = -0.0006334
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -58
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

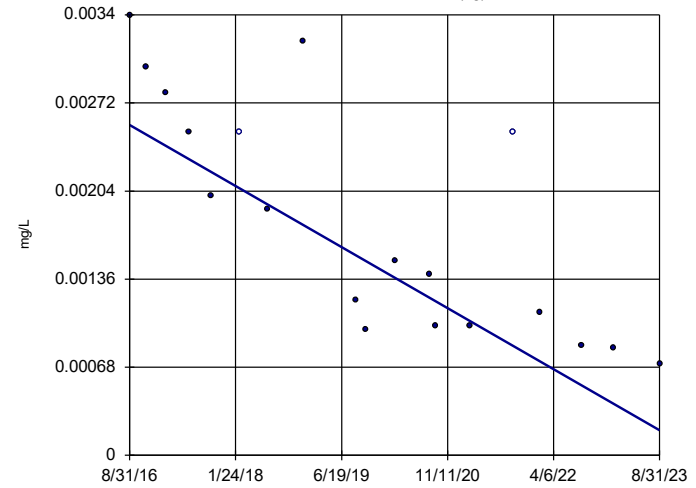


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

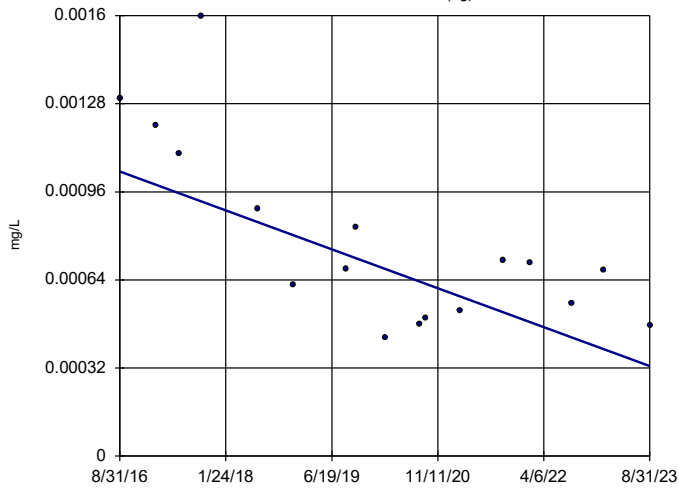


n = 19
 Slope = -0.0003364
 units per year.
 Mann-Kendall
 statistic = -119
 critical = -58
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

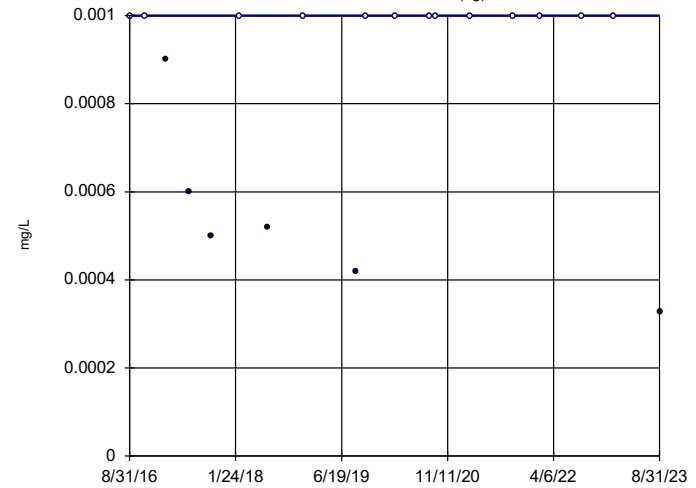


n = 17
 Slope = -0.0001008
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -49
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

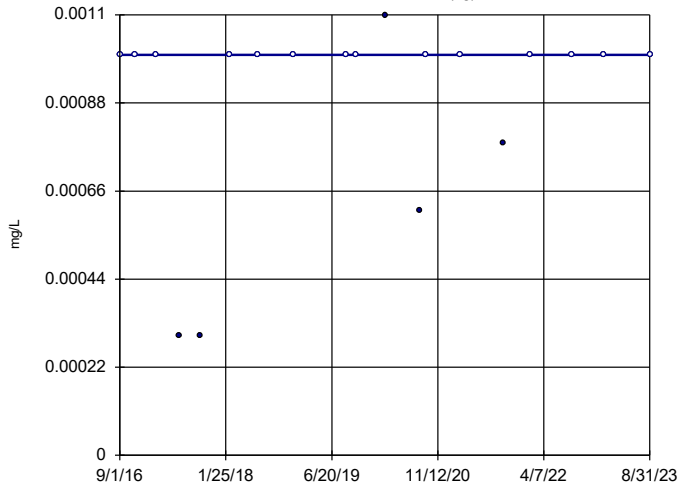


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

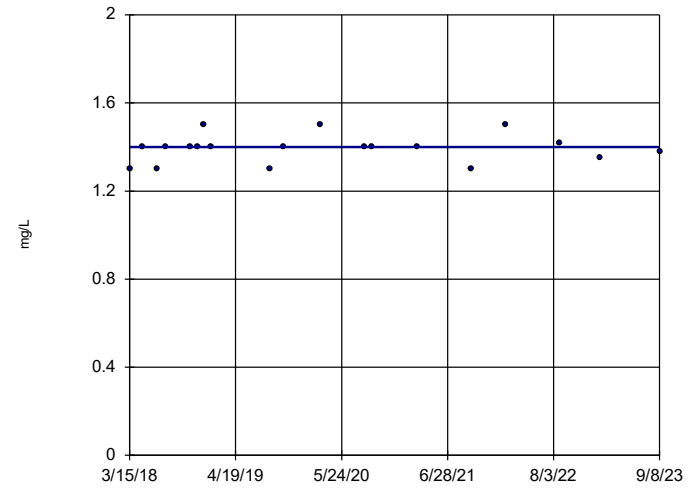


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 15
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50

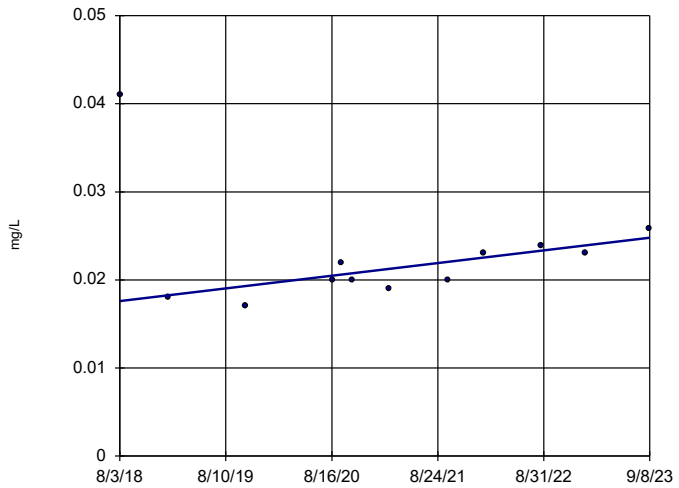


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 16
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-51I

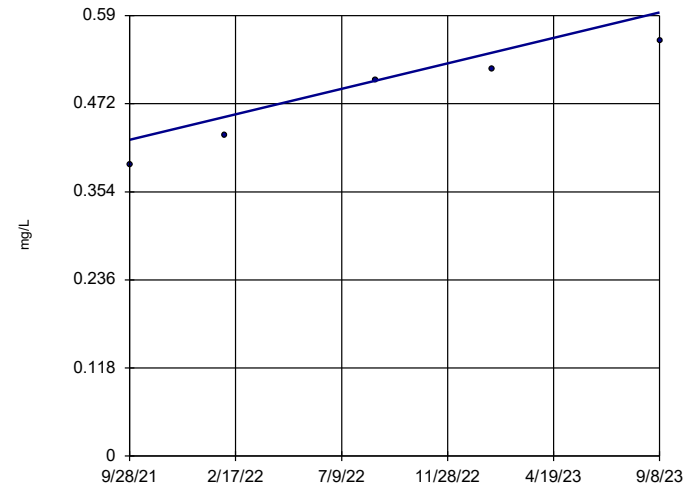


n = 12
Slope = 0.001415
units per year.
Mann-Kendall
statistic = 27
critical = 30
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-58I

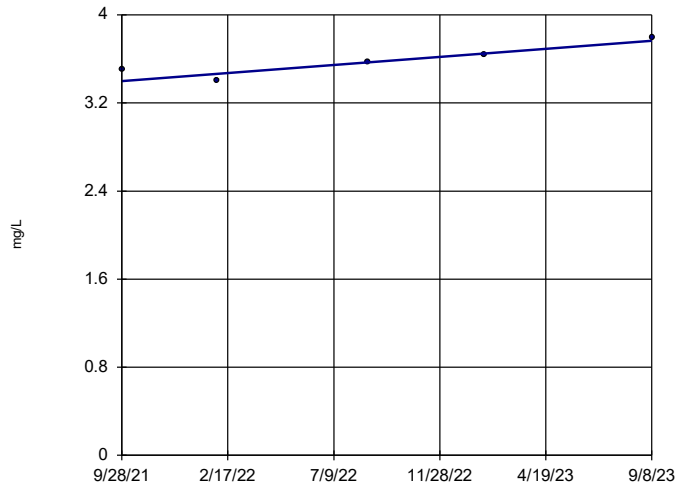


n = 5
Slope = 0.08766
units per year.
Mann-Kendall
statistic = 10
critical = 10
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-60I

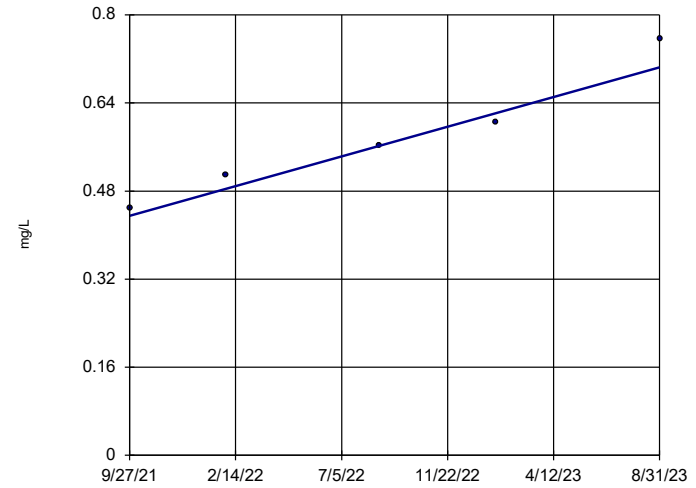


n = 5
 Slope = 0.1881 units per year.
 Mann-Kendall statistic = 8
 critical = 10
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-61I

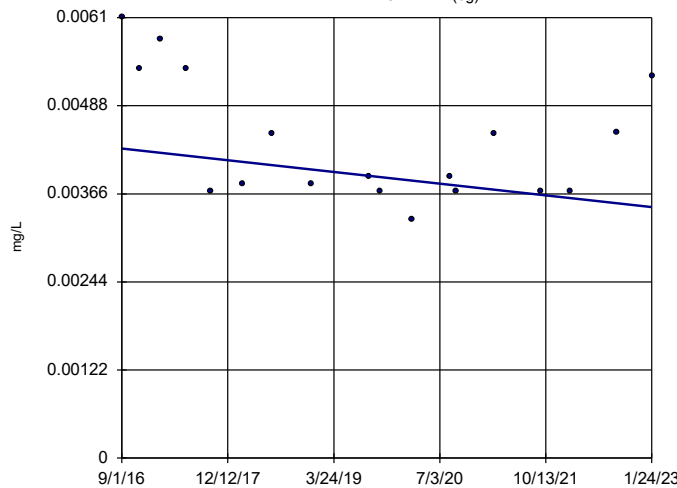


n = 5
 Slope = 0.1401 units per year.
 Mann-Kendall statistic = 10
 critical = 10
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)

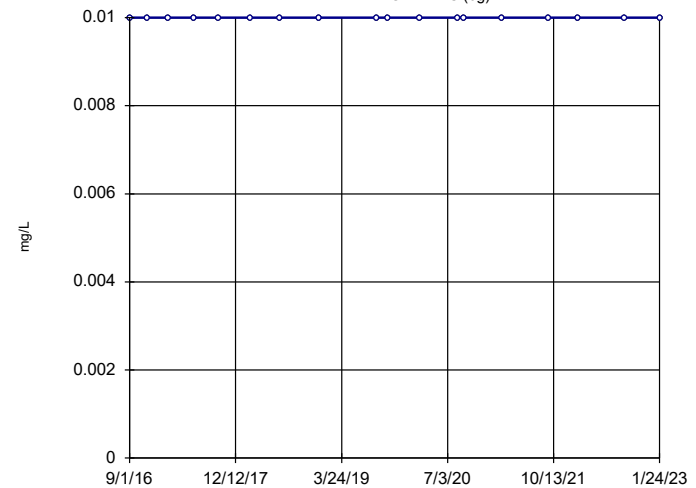


n = 18
 Slope = -0.0001266 units per year.
 Mann-Kendall statistic = -41
 critical = -53
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)

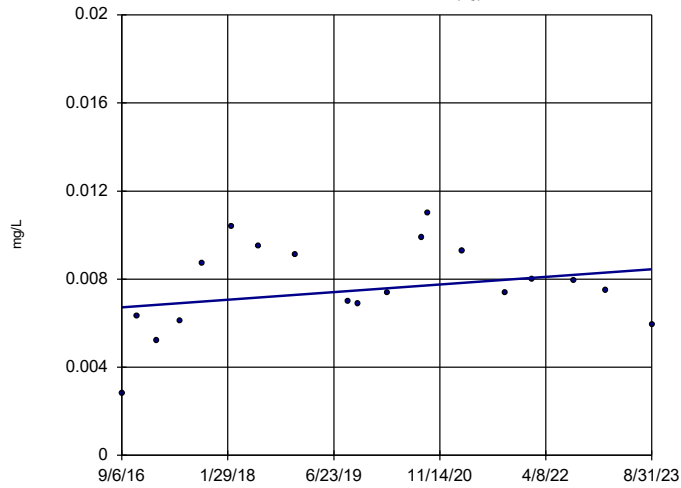


n = 18
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 53
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

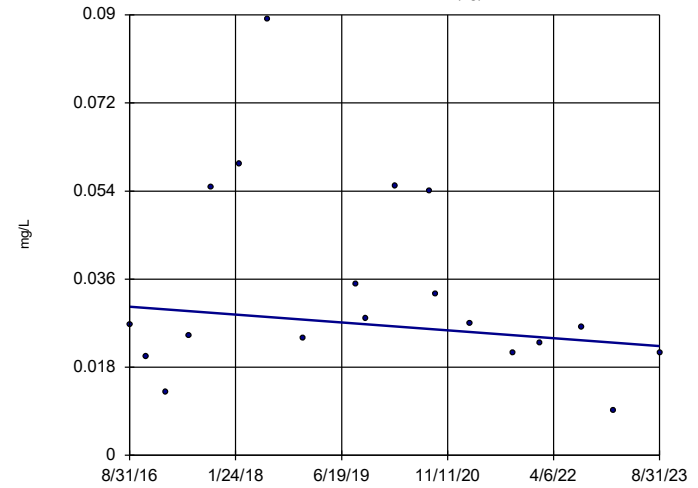
BRGWA-23S (bg)



Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

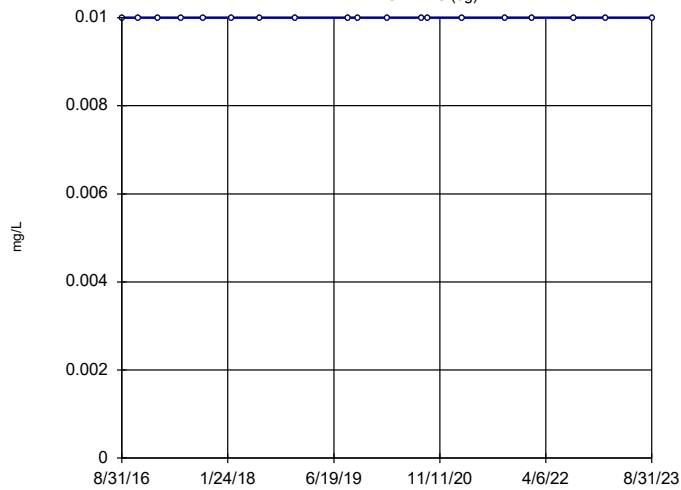
BRGWA-2I (bg)



Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

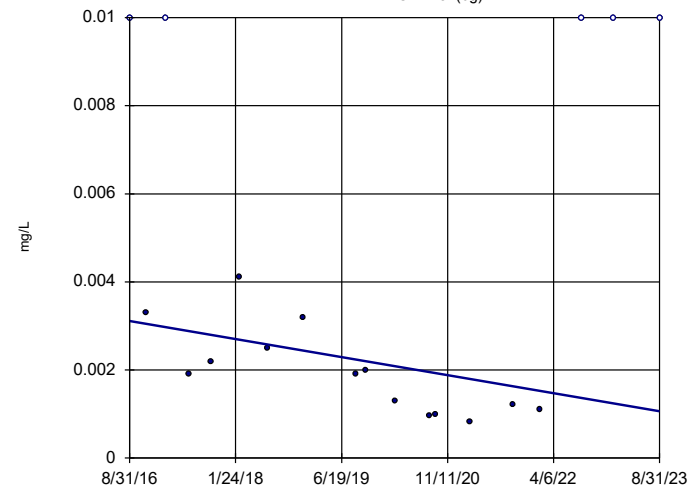
BRGWA-2S (bg)



Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

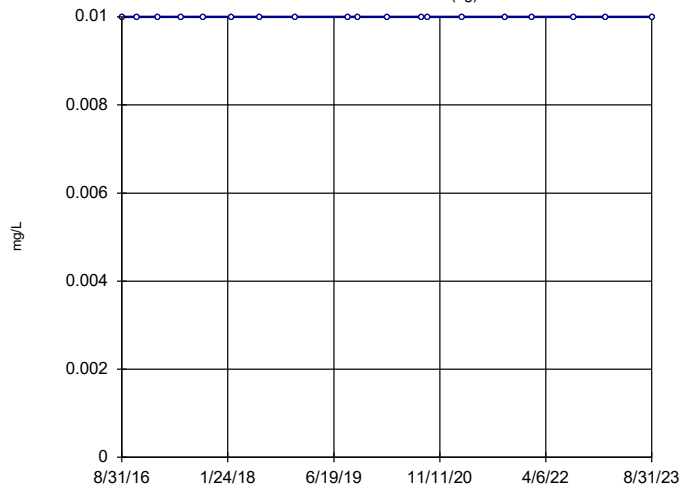
BRGWA-5I (bg)



Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

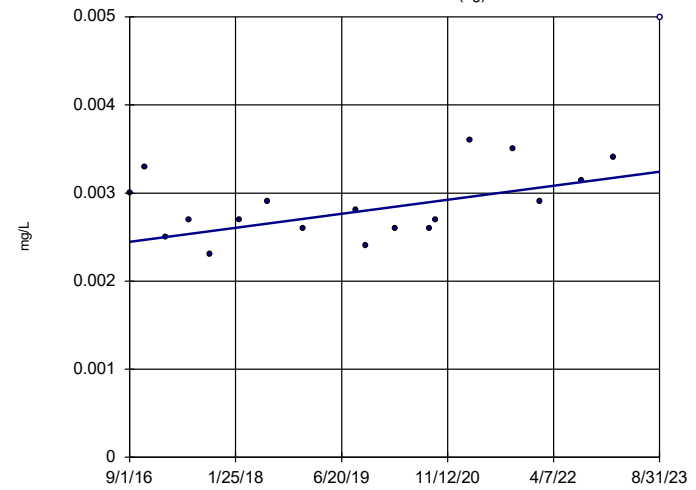


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

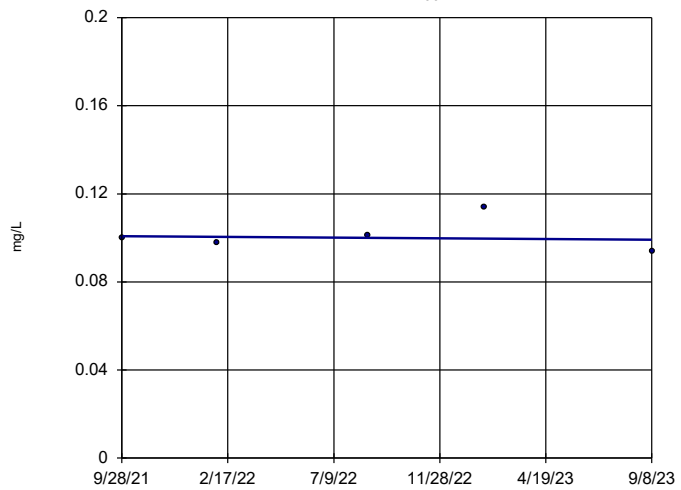


n = 19
Slope = 0.0001136
units per year.
Mann-Kendall
statistic = 56
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

PZ-60I

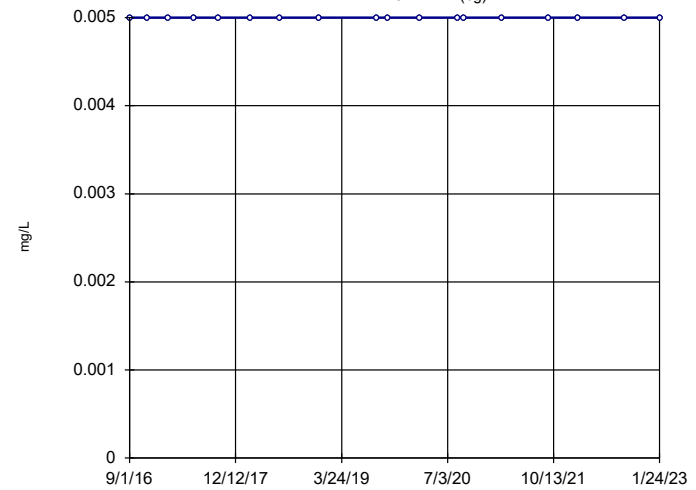


n = 5
Slope = -0.0008267
units per year.
Mann-Kendall
statistic = 0
critical = 10
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

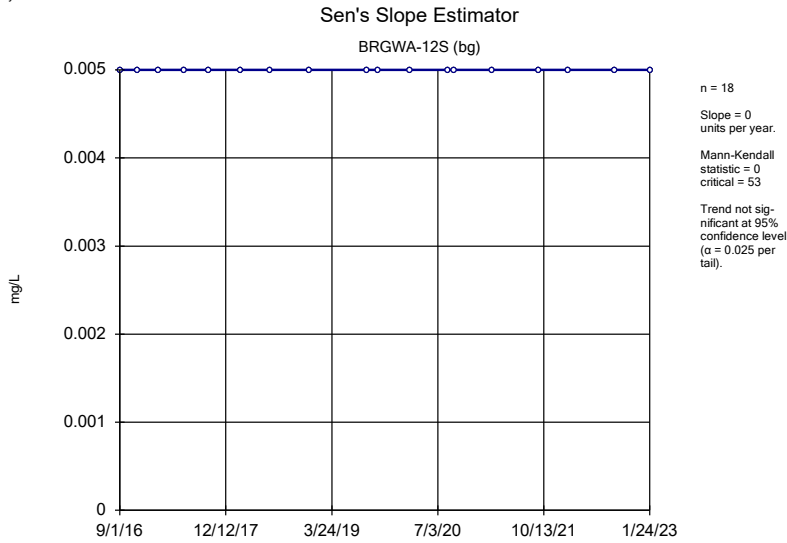
Sen's Slope Estimator

BRGWA-12I (bg)

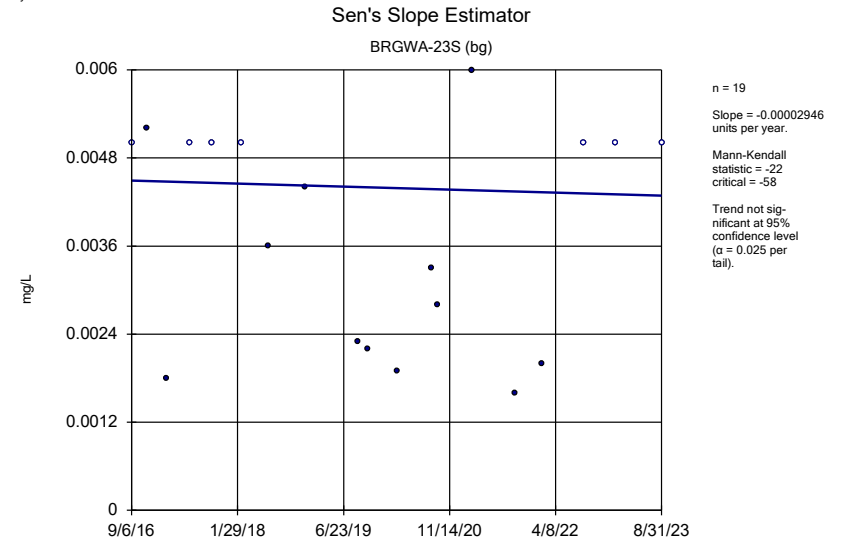


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

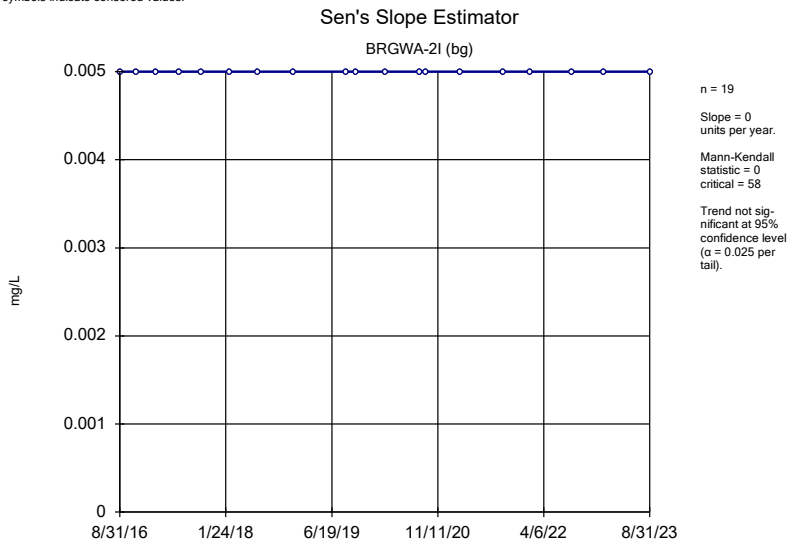
Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP



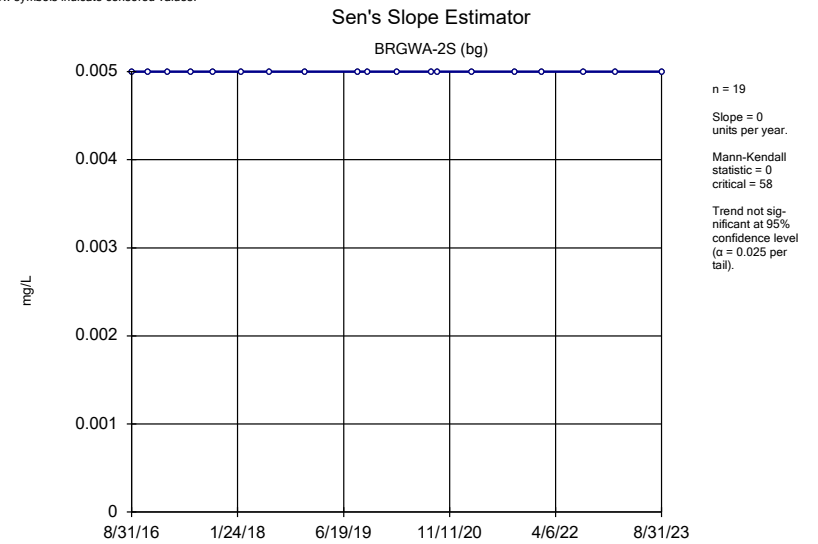
Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP



Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP



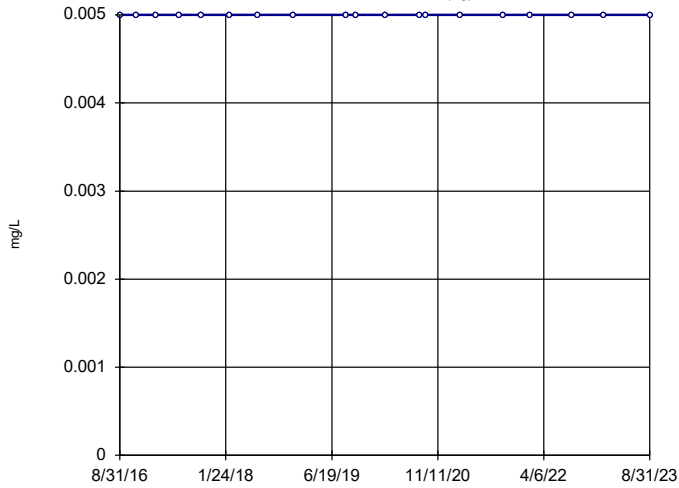
Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP



Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

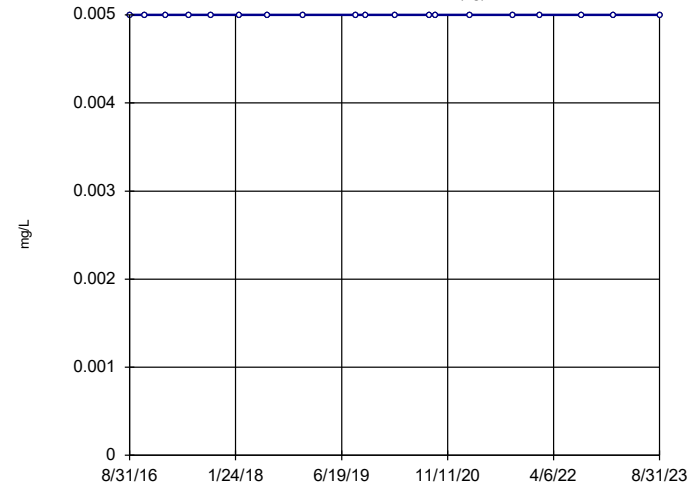


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

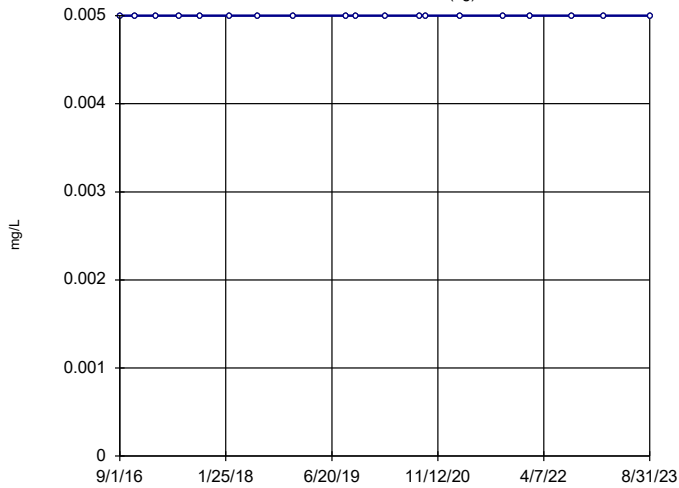


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

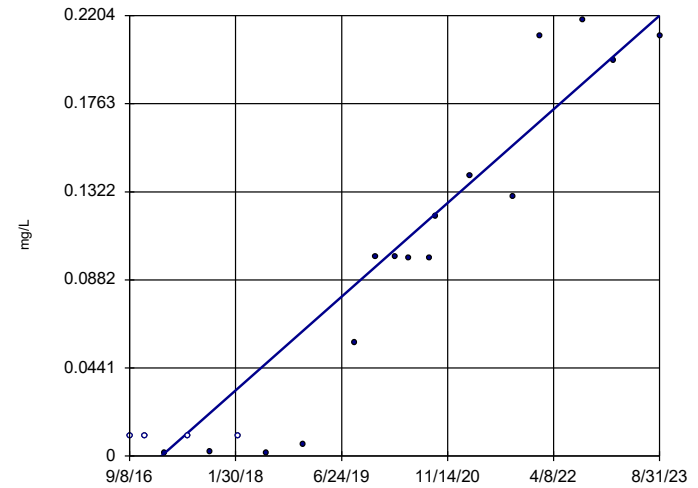


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Selenium Analysis Run 1/31/2024 1:59 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-32S



n = 20
 Slope = 0.03358
 units per year.
 Mann-Kendall
 statistic = 137
 critical = 62
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Selenium Analysis Run 1/31/2024 1:59 PM View: Pond BCD - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

APPENDIX D

Semiannual Remedy Selection and Design Progress Report



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
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SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

PLANT BRANCH ASH PONDS B, C, AND D

Prepared by

Geosyntec 
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1255 Roberts Boulevard, Suite 200
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Project Number GW8862

February 2024

CERTIFICATION STATEMENT

This *Semiannual Remedy Selection and Design Progress Report, Plant Branch Ash Ponds B, C, & D* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

Report Prepared by:



Lauren E. Fitzgerald
Georgia Professional Engineer No. 048960

February 28, 2024

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP	ash pond
ASD	alternate source demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
CSM	conceptual site model
ft/day	feet per day
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
ISS	in-situ stabilization
K_h	hydraulic conductivity
mg/L	milligrams per liter
MNA	monitored natural attenuation
ORP	Oxidation-reduction potential
PRB	permeable reactive barrier
PWR	partially weathered rock
SEP	sequential extraction procedure
SSL	statistically significant level
USEPA	United States Environmental Protection Agency
XRD	X-ray diffraction

1.0 INTRODUCTION

1.1 Purpose

This *Semiannual Remedy Selection and Design Progress Report* (the semiannual progress report) was prepared by Geosyntec Consultants, Inc. (Geosyntec) for Georgia Power Company (Georgia Power) Plant Branch Ash Ponds B, C, and D (AP-BCD or Site) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically 40 CFR § 257.97(a), and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a) (State CCR Rule). Plant Branch ceased producing electricity prior to April 2015, therefore AP-BCD is not subject to the CCR Rule. AP-BCD is managed directly under the State CCR Rule, which incorporates the CCR Rule by reference. This semiannual progress report describes the progress made since the issuance of the prior semiannual progress report in July 2023 in selecting and designing a remedy. Potentially applicable groundwater corrective measures were previously described in the *Assessment of Corrective Measures Report – Plant Branch Ash Ponds B, C, and D (AP-BCD)* (Golder, 2020) (ACM Report).

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality at the Site. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97 and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97(a) and Rule 391-3-4-.10(6)(a), semiannual progress reports have been regularly submitted to document the efforts of evaluating and progressing toward selecting a groundwater corrective measure (Golder, 2021a, 2021b, and 2022; Geosyntec, 2022, 2023a and 2023b).

1.2 Site Background and Overview of AP-BCD Pond Closure

Ash Pond B is an approximately 52-acre ash pond that was formed by damming a valley. Placement of CCR in the ash pond began in late 1967. Ash Pond C is an approximately 69-acre ash pond that was also formed by damming a valley. CCR placement in Ash Pond C began in the early 1970s. Ash Pond D is an approximately 46-acre ash pond that began receiving CCR in about 1980. All units ceased receiving waste prior to the effective date

of the CCR rule promulgated in April 2015, thereby designating this Site as a Phase II site under the State CCR Rule.

Georgia Power intends to close Ash Ponds B, C, and D (**Figure 1**) via closure by removal in accordance with § 257.102 and corresponding State Rule 391-3-4-.10(7)(b). By removing the CCR from each of the Ash Ponds, the proposed method provides a source control measure which reduces the potential for migration of CCR constituents to groundwater.

1.3 Regulatory Program Status and Nature and Extent

Pursuant to the CCR Rule, CCR compliance groundwater monitoring-related activities have been performed for AP-BCD since 2018. Georgia Power initiated a groundwater assessment monitoring program on November 13, 2019, after identifying statistically significant increases (SSI) of Appendix III constituents.

Statistical analyses of the Appendix IV assessment monitoring groundwater data collected in March 2020 identified statistically significant levels (SSL) for cobalt and cadmium at concentrations exceeding the state and/or federal Groundwater Protection Standards (GWPS)¹. Pursuant to § 257.96, Georgia Power initiated an ACM program for AP-BCD in July 2020. The ACM Report was submitted to GA EPD on December 4, 2020, and posted to the CCR compliance website (Golder, 2020). Statistical analyses of the Appendix IV assessment monitoring groundwater data collected in August 2022 identified another SSL in the AP-BCD detection monitoring network: selenium in BRGWC-32S. In addition, statistical analyses of the Appendix IV assessment monitoring groundwater data collected in January or August 2023 identified an additional cadmium SSL in PZ-60I, additional cobalt SSLs in PZ-58I, PZ-60I, and PZ-61I, beryllium as an SSL in BRGWC-50, PZ-58I and PZ-60I, and lithium in PZ-60I.

Since the ACM was initiated, assessment monitoring wells have been incorporated and installed as needed into the monitoring well network to delineate, both horizontally and vertically, the extent of the beryllium, cadmium, cobalt, lithium, and selenium SSLs downgradient of AP-BCD. The monitoring well network is shown on **Figure 2; Table 1** provides well construction details.

¹ On February 22, 2022, GA EPD adopted the federal GWPS for cobalt, lithium, lead, and molybdenum. The GWPS for cadmium is derived from the federally promulgated maximum contaminant level of 0.005 milligrams per liter.

Statistical analysis of the August 2023 semiannual assessment monitoring groundwater data identified SSLs of the following Appendix IV constituents at concentrations exceeding the applicable GWPS at AP-BCD:

- Beryllium: BRGWC-50, PZ-58I and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium: PZ-60I
- Selenium: BRGWC-32S

An alternate source demonstration (ASD) was prepared and submitted to GA EPD on February 28, 2024, to address the SSLs of beryllium, cadmium, cobalt, and lithium identified in the wells associated with these constituents as listed above (Geosyntec, 2024); these wells are located near the AP-B and former coal pile boundary. As such, this semiannual progress report will only focus on the remaining SSL of selenium in well BRGWC-32S located near AP-D. The submitted ASD is provided as Appendix E to the *2023 Semiannual Groundwater Monitoring and Corrective Action Report (2023 Semiannual Groundwater Report)* to which this semiannual progress report is appended.

The groundwater data collected in August 2023 were used to generate the selenium iso-concentration map presented on **Figure 3**. The SSL identified in BRGWC-32S is vertically delineated by PZ-68D and horizontally delineated downgradient by surface water location LS+3A and groundwater location PZ-74I, as reported in the 2023 Semiannual Groundwater Report.

Monitoring wells with SSLs and no ASD were further evaluated by Groundwater Stats Consulting using the Sen's Slope/Mann Kendall trend test. The full statistical evaluation is included as an appendix to the 2023 Semiannual Groundwater Report. A statistically significant increasing trend (at 95% confidence) was identified for selenium in BRGWC-32S.

In addition to the assessment monitoring program at the Site, Georgia Power will update the human health and ecological risk evaluation for SSLs present in groundwater to evaluate selenium as part of the Remedy Selection Report. This evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97.

Georgia Power will continue to adaptively manage the Site and use ongoing data collection to evaluate the need for additional wells at AP-BCD. Pursuant to § 257.96, groundwater in the vicinity of AP-BCD continues to be monitored during the ACM phase in accordance with the established assessment monitoring program.

1.4 Corrective Measures Evaluated

As discussed in the ACM Report, the following corrective measures were initially considered to be potentially feasible for use at AP-BCD. A comparative screening of the corrective measures is provided in **Table 2**.

1. Geochemical Approaches (In-Situ Injection)
2. Hydraulic Containment (Pump and Treat)
3. In-Situ Stabilization (ISS)
4. Monitored Natural Attenuation (MNA)
5. Permeable Reactive Barrier (PRB)
6. Phytoremediation
7. Subsurface Vertical Barrier Walls

ISS, PRB, and subsurface vertical barrier wall corrective measures have since been removed from consideration based on data evaluations presented in previous semiannual progress reports (Golder, 2021a, 2021b, 2022; Geosyntec, 2022, 2023a and 2023b) and the discussion provided in **Table 2**.

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Golder, 2020) to support the groundwater remedy selection process and address potential changes in site conditions (e.g., successful reduction of constituent concentrations or changing trends) as appropriate during ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account.

Characterization activities to evaluate attenuation mechanisms at the Site include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA of inorganic constituents (USEPA, 1999, 2007, and 2015). The 1999 MNA guidance originally introduced a “tiered approach” with three tiers of site-specific information, or lines of evidence, to evaluate the appropriate use of MNA at certain sites (USEPA, 1999). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants

(USEPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (USEPA, 2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 and 2007 MNA guidance. The phases are briefly outlined below:

- Phase I: Demonstration that the groundwater plume is *not expanding*.
- Phase II: Determination that the *mechanism and rate* of the attenuation process are sufficient.
- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia Power will address Phase IV, as appropriate, during the development of the future corrective action monitoring plan, after the final remedy selection report.

The data collection approach and the data interpretation presented within this semiannual progress report are informed by this tiered MNA guidance. It is noted, however, that the characterization data collected under this approach are also used to refine the conceptual site model (CSM) and evaluate other retained potential corrective measures, namely, in-situ injection and hydraulic containment.

1.5 Annual Potable Water Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-BCD was conducted in December 2023 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix A**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Putnam County Environmental Health Department did not provide a response following multiple requests. The findings from the 2023 well survey are consistent with the 2022 well survey (Geosyntec, 2023a), except for the following additional feature identified:

- One drinking water well located approximately 1.1 miles northeast of AP-BCD, with geographic coordinates 33.20897, -83.29427.

Sections of Lake Sinclair are located between AP-BCD and the well listed above. Therefore, it is reasonable to expect the well to be hydrologically separated from the Site and is not considered to be hydraulically downgradient.

2.0 SUMMARY OF WORK COMPLETED

The following section summarizes the field investigations and data evaluations completed in support of the ACM program since the issuance of the prior semiannual progress report in July 2023 (Geosyntec, 2023b); the described work is specific to the SSL of selenium associated with BRGWC-32S downgradient of AP-D. The routine monitoring events associated with the assessment monitoring program are discussed in the 2023 Semiannual Groundwater Report, to which this semiannual progress report is appended.

2.1 Field Activities

Additional field investigation activities since the issuance of the prior semiannual progress report include temporary piezometer installation and sampling as well as aquifer testing. These activities are detailed below.

2.1.1 Piezometer Installation and Sampling

In August 2023, one temporary piezometer (PZ-79) was installed in interstitial water at AP-D (**Figure 2**) to provide additional data to support the geochemical characterization and remedy selection efforts being completed at the Site. The piezometer is screened within the CCR material of AP-D and is constructed with a 10-foot well screen segment. Following well development, an interstitial water sample was collected and analyzed for Appendix III, selenium, and select geochemical parameters in support of the ACM program for AP-D. A detailed boring log for the installation of PZ-79 is provided in **Appendix B**.

All groundwater samples were sent to GEL Laboratories under chain of custody procedures. Details of the sampling methods are provided in the *2024 Semiannual Groundwater Report*; applicable results are discussed in Section 3.

2.1.2 Aquifer Testing

In July 2023, slug testing was conducted at PZ-71I, PZ-72I, PZ-73I, PZ-74I, and PZ-75I for additional hydraulic conductivity data in the area downgradient of detection well BRGWC-32S near AP-D (**Figure 3**). The installation of these wells was discussed in the July 2023 semiannual progress report (Geosyntec, 2023b). Slug test data are provided in **Table 3**. The pneumatic slug method was used since the appropriate screened zone was fully submerged and the well riser was not vented at the top. For the pneumatic method, the well casing was pressurized using compressed nitrogen gas to displace the water within the piezometer. After the pressure was released using a manual valve, the

groundwater recovery was measured using a downhole pressure transducer and data logger (Level Troll 700) until the water level reached 95% of the static pre-test conditions.

Following collection of the displacement and recovery data, the processing and analysis was completed using the AQTESOLV curve-matching software to estimate horizontal hydraulic conductivity (K_h). Both the Bouwer-Rice (1971) and Kentucky Geological Society or Hvorslev methods (as appropriate) were used to estimate K_h for each piezometer and the results for each method are presented for comparative purposes in **Table 3**.

2.2 Data Analysis Activities

In addition to the field activities discussed above, this section describes further data analysis including aquifer solids characterization and groundwater geochemical characterization.

2.2.1 Soil Characterization

During the installation of monitoring wells and piezometers downgradient of AP-D (PZ-69I, PZ-71I, PZ-72I, PZ-73I, PZ-74I and PZ-75I), aquifer solids were collected for characterization via total metals, sulfur, sulfide, cation exchange capacity (CEC), elemental characterization by whole rock analysis, and mineralogical characterization using x-ray diffraction (XRD) in July 2023.

The CEC of soils is dependent on the amount and type of clay minerals, organic matter, and amorphous metal oxides and therefore, is a measure of the capacity of the aquifer matrix to sorb exchangeable metal cations. Whole rock analysis is an analytical method for lithochemical classification of samples providing elemental analysis of sample mineralogy that can be used to help inform XRD. The laboratory results are included as **Appendix C**.

2.2.2 Groundwater Analytical Analysis

The analytical groundwater data reported for the assessment monitoring event conducted in August 2023 along with the analytical data collected from interstitial water in AP-D (PZ-79) were evaluated in support of assessing the nature and extent of selenium impacts downgradient of AP-D.

Supplemental groundwater samples from select wells were also collected and sent to Eurofins for analysis of sulfide to compare with the GEL sulfide results. In October/November 2023, some wells were resampled to confirm the GEL sulfide results.

All groundwater samples were sent to GEL Laboratories under chain of custody procedures, with the exception of the split sulfide samples and sulfide resamples, which were sent to Eurofins. Details of the sampling methods are provided in the *2024 Semiannual Groundwater Report*; applicable results are discussed in Section 3.

3.0 SUMMARY OF RESULTS

This section presents the results of the field and data analysis efforts outlined in Section 2.

3.1 Summary of Field Activities

3.1.1 Aquifer Testing

PZ-71I, PZ-72I, PZ-73I, PZ-74I, and PZ-75I were installed between May and June 2023. PZ-71I is screened within the lower portion of the saprolite and partially weathered rock (PWR). PZ-72I is screened within lower portion of PWR and near the top of the underlying bedrock. PZ-73I is screened within the lower portion of the saprolite and partially weathered rock, at or near the top of the underlying bedrock. PZ-74I and PZ-75I are both screened within PWR and near the top of the underlying bedrock. The associated boring logs for these wells are provided in the well installation report included in the *2023 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2023b). The resulting K_h values from aquifer testing for wells PZ-71I, PZ-72I, PZ-73I, and PZ-74I ranged from 5.5×10^{-5} centimeters per second (cm/sec) (0.155 feet per day [ft/day]) to 5.0×10^{-4} cm/sec (1.41 ft/day). These results are consistent with or lower than previous observations for the saprolite/PWR unit at the Site, which ranged from 4.3×10^{-5} to 7.6×10^{-3} cm/sec. These K_h values are also consistent with reference values for fractured crystalline rock (10^{-2} to 10^{-6} cm/sec) and saprolite (10^{-3} to 10^{-7} cm/sec) (Freeze and Cherry, 1979). A summary of the input parameters and results of the data analysis is included in **Table 3**.

3.2 Summary of Data Analysis Activities

3.2.1 Soil Characterization

Total metals concentration data was obtained for solids collected from PZ-69I, PZ-71I, PZ-72I, PZ-73I, PZ-74I, and PZ-75I for inorganic characterization of the soil downgradient of AP-D. The quantitative total metals analysis (see **Table 4**) indicated that selenium was not detected above the analytical method detection limit in the solid phase downgradient of AP-D.

In addition to inorganic characterization, the aquifer solids were analyzed for the sulfur and sulfide content along with CEC (see **Table 5**) for a further characterization of the solid matrix. Sulfide and sulfur content in the solids were either non-detect or low concentrations for all samples. While low or no detections were observed, this does not

directly indicate that sulfur and sulfides are not present at sufficient quantities to impact potential sorption characteristics of the system. The results of CEC analysis ranged from 4.78 to 8.66 milliequivalents per 100 grams (meq/100g). These cation exchange capacities appear to be mostly dominated by clay minerals and metal oxides (likely both crystalline and amorphous), which were identified in the mineralogical characterization as discussed below.

Further characterization of the aquifer matrix was accomplished by whole rock analysis and XRD. Results for these analyses are presented in **Table 6** and **Table 7**. Generally, the aquifer is characterized by quartz and albite with minor amounts of clays. The presence of elemental iron oxide (e.g., Fe_2O_3) was noted in the whole rock analysis up to approximately 9.64% even though crystalline iron oxides were not identified via XRD above the detection limit. These iron oxides could potentially provide surface sites for adsorption onto the solid phase.

3.2.2 Groundwater Geochemical Analysis

Evaluation of the recent groundwater data in the vicinity of AP-D and in PZ-79 (**Table 8**) confirms that increasing selenium is associated with increasing dissolved oxygen measurements in the field, which indicate a more aerobic environment that could limit in-situ reduction processes. The findings also show that selenium was detected above the GWPS in the AP-D interstitial water samples where the dissolved oxygen was also elevated at 4.08 milligrams per liter (mg/L). Prior selenium speciation results indicated that selenium downgradient of AP-D is in the selenate form ($\text{Se}[\text{VI}]$) or +6 oxidation state, which is characterized by high mobility in aqueous environments. These results suggest that the current groundwater selenium detections are a result of the oxidation of selenium species followed by subsequent migration with groundwater flow from AP-D.

Sulfide analytical data from groundwater samples collected during the August 2023 groundwater sampling event and the resampling event conducted in October/November 2023, are presented in **Table 9**. Although there were detections of sulfide in two of the split samples analyzed by Eurofins, when resampled, all wells were non-detect for sulfide. Non-detect sulfide levels are expected as none of the wells are observed to be under complete reducing conditions. Review of the additional water quality data is consistent with what has been observed previously when sulfide measurements were observed to be non-detect. Select detections in sulfide at various times are likely due to localized and temporal changes in the oxidation reduction potential (ORP).

4.0 UPDATED CONCEPTUAL SITE MODEL

As noted previously, the closure strategy for AP-BCD will be closure by removal, thereby providing a source control measure that reduces potential for migration of CCR-related constituents to groundwater. The CSM indicates that, under current conditions, the groundwater exceedances are contained onsite. Data collected during this semiannual reporting period are consistent with and generally agree with the CSM described in the previous semiannual progress report (Geosyntec, 2023b).

- AP-D:
 - A statistically significant increasing trend was observed for selenium in BRGWC-32S (**Figure 4**).
 - The downgradient lateral extent of selenium is delineated by PZ-74I and sampling of surface water from Lake Sinclair.
 - Previous SEP data analyses and recent total metals results for aquifer solid samples suggest that selenium is not associated with any solid phase fractions. Selenium speciation indicates that selenium exists as selenate (Se[VI]). This observation indicates that selenium is predominantly present in the aqueous or mobile phase.
 - The presence of selenium in AP-D interstitial water and groundwater downgradient of AP-D was observed to be associated with elevated concentrations of dissolved oxygen. This suggests the primary mechanism of mobilization to be oxidation of selenium species followed by subsequent migration with groundwater flow.

5.0 UPDATED EVALUATION OF CORRECTIVE MEASURES

Based on the data collected to date, the following potential corrective measures will be retained for further evaluation.

- Geochemical Approach (In-Situ Injections):
 - Geochemical injections include the use of an injection well network, or other means of introducing reagents or air into the subsurface, to promote conditions suitable for the attenuation of selenium. While treatability testing for AP-D has not been completed, in-situ remediation via injection of reduced iron species including zero valent iron could lead to the reduction of mobile selenium species to elemental selenium. Therefore, the applicability of injection mechanisms for the treatment of selenium remains a potentially viable option.

- Hydraulic Containment (Pump and Treat):
 - Hydraulic containment refers to the use of groundwater extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse. Groundwater extraction and above-ground treatment is potentially a viable option.

- Monitored Natural Attenuation:
 - MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction [redox] reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. The characterization of aquifer solids presented in the previous and current semiannual progress reports suggest that the aquifer matrix has the potential for attenuation of selenium (in the correct phase) at the Site. While not a possible stand-alone remedy, MNA could be utilized with a geochemical approach that generates reduced selenium species. Therefore, MNA remains a viable corrective measure.

- Phytoremediation:

Phytoremediation is the use of plants to degrade, immobilize, or contain constituents in soil, groundwater, surface water, and sediments. This was previously excluded from consideration as unviable given the site-specific groundwater flow velocities. However, based on the current understanding of groundwater flow velocities downgradient of AP-BCD and the screen intervals where the SSLs are observed, an engineered phytoremediation approach (TreeWell[®] system) may be viable and will be retained for further evaluation.

Continued groundwater monitoring and updates to the statistical analyses will further refine the CSM and allow for the continued evaluation of an appropriate groundwater corrective measure at the Site.

6.0 PLANNED ACTIVITIES AND ANTICIPATED SCHEDULE

The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. During the closure construction of AP-BCD, temporary changes in site conditions may occur that must be considered as part of remedy selection. Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Golder, 2020) to support the remedial strategy and address potential changes in site conditions as appropriate. The adaptive site management approach may be adjusted over the Site's life cycle as new site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to continue assessment of the feasibility of the corrective measures retained for further evaluation. Once sufficient data are available to make technically sound decisions regarding the ability to implement one or more specific corrective measures, necessary steps will be taken to design and implement a remedy for AP-BCD in accordance with § 257.98.

Supplementary data collection and evaluation activities proposed to be completed during the next semiannual reporting period include:

- Continue evaluation of results from geochemical investigations downgradient of AP-D to identify the mechanisms of mobilization and potential attenuation of selenium.
- Identify additional bench-scale treatability testing to support evaluation of in-situ geochemical injection remedial alternatives.
- Apply geochemical modeling to support remedy selection at AP-D.

Georgia Power will continue to prepare semiannual progress reports to document AP-BCD groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include future semiannual progress reports in routine groundwater monitoring and corrective action reports. Record keeping, notifications, and publicly accessible internet site requirements for the semiannual progress reports will be provided in accordance with § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

7.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Hydraulic Location	Installation Date	Easting ⁽¹⁾	Northing ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BGS)	Screen Interval Length (ft)
AP-BCD Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWA-23S	Upgradient BCD	7/26/2016	2557868.25	1162971.84	425.5	428.24	394.7	384.7	40.8	10
BRGWC-25I	Downgradient B	7/25/2016	2561315.08	1160583.67	355.0	357.37	344.5	334.5	20.5	10
BRGWC-27I	Downgradient C	7/22/2016	2559712.12	1159695.33	364.0	366.86	350.0	340.0	24.0	10
BRGWC-29I	Downgradient C	7/23/2016	2561050.03	1160297.65	350.6	353.23	340.6	330.6	20.0	10
BRGWC-30I	Downgradient D	7/18/2016	2557691.84	1161607.69	350.0	352.61	340.0	330.0	20.3	10
BRGWC-32S	Downgradient D	7/20/2016	2558497.97	1160677.67	403.6	406.39	368.6	358.6	45.0	10
BRGWC-45	Downgradient B	2/3/2018	2561075.38	1162229.68	381.6	384.58	335.0	325.0	57.0	10
BRGWC-47	Downgradient D	1/25/2018	2559456.75	1162700.66	408.8	411.20	327.2	317.2	92.0	10
BRGWC-50	Downgradient B	1/31/2018	2562372.96	1161593.45	378.8	381.35	324.2	314.2	65.0	10
BRGWC-52I	Downgradient B	8/6/2018	2562145.22	1161274.99	381.2	383.87	317.3	307.3	73.9	10
AP-E Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWC-17S	Downgradient E	3/13/2014	2554687.84	1166301.32	362.2	365.32	360.5	355.5	7.1	5
BRGWC-33S	Downgradient E	7/26/2016	2554064.97	1168057.09	414.2	416.68	398.2	388.2	26.4	10
BRGWC-34S	Downgradient E	7/25/2016	2554231.28	1167384.17	389.2	391.96	376.2	366.2	23.0	10
BRGWC-35S	Downgradient E	7/23/2016	2554476.13	1166646.02	363.7	366.31	346.7	336.7	27.4	10
BRGWC-36S	Downgradient E	7/26/2016	2554693.26	1165742.82	383.1	389.84	364.4	354.4	28.7	10
BRGWC-37S	Downgradient E	7/24/2016	2554979.63	1165093.07	444.4	447.05	390.8	380.8	63.6	10
BRGWC-38S	Downgradient E	7/22/2016	2555016.50	1164391.82	429.8	432.24	402.0	392.0	38.2	10
AP-BCD Assessment Monitoring Well Network										
PZ-44	Downgradient B	2/2/2018	2561587.42	1161724.48	380.5	383.04	333.9	323.9	57.0	10
PZ-50D	Downgradient B	10/8/2020	2562380.34	1161589.51	378.3	380.86	282.3	272.3	106.0	10
PZ-51I	Downgradient B	8/1/2018	2562439.35	1161631.12	378.0	380.52	323.1	313.1	65.0	10
PZ-51D	Downgradient B	10/9/2020	2562433.15	1161640.16	378.1	380.75	282.1	272.1	106.0	10
PZ-58I	Downgradient B	3/27/2021	2562297.82	1161579.00	379.3	382.27	325.7	315.7	63.9	10
PZ-60I	Downgradient B	3/29/2021	2562330.79	1161588.01	379.5	382.61	329.0	319.0	60.8	10
PZ-61I	Downgradient B	3/30/2021	2562429.63	1161621.94	377.7	380.64	312.0	302.0	76.0	10
PZ-63I	Downgradient B	1/5/2022	2562233.10	1161371.20	378.6	381.31	332.1	322.1	56.5	10
PZ-64I	Downgradient B	9/10/2022	2562404.29	1161787.72	379.4	381.94	320.6	310.6	69.3	10
PZ-68D	Downgradient D	9/06/2022	2558512.90	1160690.48	402.5	405.25	328.8	318.8	84.3	10
PZ-74I	Downgradient D	5/24/2023	2557970.94	1160189.30	368.3	371.13	330.5	320.5	48.0	10
PZ-75I	Downgradient D	6/27/2023	2558343.03	1160009.37	354.9	357.86	337.9	327.9	27.4	10
AP-E Assessment Monitoring Well Network										
PZ-13S	Downgradient E	3/19/2014	2555276.64	1168011.19	406.5	409.97	382.2	372.2	34.7	10
PZ-52D	Downgradient E	5/14/2020	2554051.53	1168053.71	414.3	417.03	364.8	354.8	59.5	10
PZ-53D	Downgradient E	5/17/2020	2554984.36	1164393.74	431.6	434.68	302.2	292.2	139.4	10
PZ-70I	Downgradient E	8/16/2022	2555374.08	1164326.66	422.9	425.70	363.4	373.4	52.9	10
Piezometers										
PZ-1D	Upgradient BCD & E	4/4/2014	2551598.09	1171999.19	462.9	463.41	397.4	302.9	160.0	94.5
PZ-1I	Upgradient BCD & E	3/10/2014	2551577.63	1171995.75	461.9	464.71	392.8	382.8	79.5	10
PZ-1S	Upgradient BCD & E	3/20/2014	2551588.02	1171996.20	462.4	465.07	407.8	397.8	65.0	10
PZ-3D	Upgradient BCD & E	3/27/2014	2550275.05	1165474.25	486.7	487.50	438.7	358.6	130.0	82
PZ-3I	Upgradient BCD & E	3/11/2014	2550273.05	1165494.61	486.5	489.49	442.3	432.3	54.6	10
PZ-3S	Upgradient BCD & E	3/11/2014	2550274.66	1165484.43	487.0	490.53	457.5	447.5	39.9	10

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PZ-4I	Upgradient BCD & E	3/11/2014	2551282.08	1163246.61	479.9	482.98	443.5	433.5	46.8	10
PZ-4S	Upgradient BCD & E	3/10/2014	2551270.14	1163247.97	479.9	482.87	460.3	450.3	30.0	10
PZ-7S	Upgradient BCD & E	4/1/2014	2553055.64	1169419.33	449.0	451.57	414.9	404.9	44.5	10
PZ-8S	Upgradient BCD & E	4/1/2014	2551188.94	1167801.20	450.5	453.08	411.4	401.4	49.5	10
PZ-9S	Upgradient BCD & E	3/5/2014	2553089.53	1162633.36	466.1	469.28	428.5	418.5	48.0	10
PZ-10S	Downgradient E	3/5/2014	2554990.43	1164021.55	431.0	433.85	402.4	392.4	39.0	10
PZ-14I	Downgradient E	3/20/2014	2554365.65	1168398.28	419.9	422.71	376.5	366.5	53.8	10
PZ-14S	Downgradient E	3/20/2014	2554359.23	1168398.59	420.2	423.31	393.0	383.0	37.6	10
PZ-15I	Downgradient E	3/25/2014	2554399.25	1167721.02	400.2	403.06	321.9	311.9	88.7	10
PZ-15S	Downgradient E	3/27/2014	2554394.06	1167720.25	400.1	402.90	370.2	360.2	39.9	10
PZ-16I	Downgradient E	3/14/2014	2554587.53	1166980.59	379.5	382.45	351.3	341.3	38.6	10
PZ-16S	Downgradient E	3/18/2014	2554581.44	1166977.63	379.3	382.52	370.6	360.6	19.1	10
PZ-17I	Downgradient E	3/17/2014	2554702.42	1166313.81	362.3	365.33	329.2	319.2	43.5	10
PZ-18I	Downgradient D	2/26/2014	2557745.51	1160766.13	359.6	362.55	331.3	321.3	38.4	10
PZ-18S	Downgradient D	3/26/2014	2557747.42	1160757.41	359.7	362.82	345.0	335.0	24.2	10
PZ-19I	Downgradient C	3/4/2014	2558899.87	1159797.10	368.9	371.74	335.6	325.6	43.7	10
PZ-19S	Downgradient C	3/4/2014	2558894.60	1159805.43	368.4	371.42	350.8	340.8	28.0	10
PZ-20I	Downgradient C	3/5/2014	2560160.17	1159495.25	362.2	365.34	343.1	333.1	29.5	10
PZ-20S	Downgradient C	3/5/2014	2560157.16	1159490.13	362.2	365.41	357.3	347.3	15.3	10
PZ-21I	Downgradient B	3/10/2014	2561328.17	1160591.42	355.8	358.92	341.8	331.8	24.4	10
PZ-21S	Downgradient B	3/11/2014	2561321.43	1160592.45	355.5	358.52	351.1	346.1	9.8	5
PZ-23I	Upgradient BCD	7/29/2016	2557877.71	1162975.56	425.1	427.74	368.6	358.6	66.5	10
PZ-24S	Downgradient A	7/27/2016	2562862.19	1162400.95	351.4	354.10	319.9	309.9	42.0	10
PZ-26I	Downgradient B	7/26/2016	2561626.45	1160669.20	368.0	370.63	347.5	337.5	30.5	10
PZ-28I	Downgradient C	7/24/2016	2560151.53	1159505.00	362.5	364.81	348.5	338.5	24.0	10
PZ-31S	Downgradient D	7/26/2016	2557971.75	1160936.81	374.3	376.77	344.8	334.8	39.5	10
PZ-40S	Downgradient A	2/14/2017	2562807.61	1162415.06	353.2	355.96	324.4	314.4	40.2	10
PZ-41S	Downgradient A	2/14/2017	2562759.44	1162431.76	354.3	357.17	320.5	310.5	44.2	10
PZ-42S	Upgradient A	2/9/2017	2562734.89	1162845.64	359.0	361.66	337.2	327.2	32.2	10
PZ-43	Downgradient B	2/7/2018	2562031.42	1162159.72	381.0	383.71	351.0	341.0	40.4	10
PZ-46	Downgradient B	2/5/2018	2560558.89	1162756.31	382.1	384.64	346.5	336.5	45.6	10
PZ-48	Downgradient D	1/24/2018	2558444.63	1163046.78	418.3	420.90	361.7	351.7	67.0	10
PZ-49	Downgradient B	1/30/2018	2561125.71	1163321.35	382.2	384.99	375.6	365.6	17.0	10
PZ-51S	Downgradient B	8/1/2018	2562433.07	1161613.24	377.9	380.27	337.9	332.9	45.4	5
PZ-54	Downgradient E	5/15/2020	2555458.38	1164828.76	440.8	443.86	398.8	388.8	52.0	10
PZ-55	Downgradient E	5/19/2020	2554783.76	1163208.08	450.2	453.07	410.9	400.9	49.3	10
PZ-56	Downgradient E	5/20/2020	2554086.36	1162965.21	416.2	418.84	396.9	386.9	29.3	10
PZ-57I	Downgradient B	3/24/2021	2562170.21	1161582.51	379.4	382.50	313.8	303.8	75.9	10
PZ-59I	Downgradient B	3/31/2021	2562329.80	1161654.90	379.9	383.49	323.5	313.5	66.0	10
PZ-62I	Downgradient B	1/6/2022	2562336.00	1161478.90	378.1	380.95	318.1	308.1	70.0	10
PZ-65I	Downgradient B	9/09/2022	2562240.57	1161692.72	379.6	382.06	320.9	310.9	69.3	10
PZ-66I	Downgradient B	9/08/2022	2562134.65	1161747.91	380.9	383.52	323.1	313.1	68.3	10
PZ-67	Downgradient B	9/07/2022	2561919.76	1161831.98	378.8	381.48	351.0	341.0	38.3	10
PZ-69I	Downgradient D	8/31/2022	2558447.46	1160311.39	377.0	379.36	348.2	338.2	39.3	10
PZ-71I	Downgradient D	5/2/2023	2558230.83	1160295.35	382.6	385.34	352.8	342.8	40.0	10
PZ-72I	Downgradient D	5/9/2023	2558394.65	1160133.29	365.9	368.57	342.0	332.0	34.2	10
PZ-73I	Downgradient D	5/10/2023	2558559.30	1160226.37	349.9	352.63	334.9	324.9	25.3	10

Notes:

ft = feet

ft BGS = feet below ground surface

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 2
Evaluation of Remedial Technologies
Plant Branch AP-BCD, Putnam County, Georgia

Regulatory Citation for Criteria:		40 CFR 257.96(C)(1)		40 CFR 257.96(C)(1)	40 CFR 257.96(C)(1)
Corrective Measure	Description	Performance	Reliability	Ease of Implementation	Potential Impacts
Geochemical Approaches (In-Situ Injection)	Use of an injection well network, or other means of introducing reagents, microbes, or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of selenium (Se). The main attenuation mechanism for Se is reduction, either microbially-mediated or abiotic, although precipitation and sorption with mineral surfaces can also play a key role in the attenuation of Se. In-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including Se.	The immobilization of Se under reducing conditions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. This immobilization has been demonstrated, however immobilization under site-specific conditions requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options.	Reliability dependent on permeability of the subsurface and the amount and distribution of reagents that can be consistently distributed. Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench-and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of Se in groundwater.	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. The potential for clogging of aquifer matrix and/or injection well infrastructure is an implantation consideration. Chemical distribution during injections (i.e., radius of influence) needs to be evaluated.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly evaluated and implemented. Consideration of groundwater flow to nearby sensitive environments may be needed.
Hydraulic Containment ("Pump and Treat")	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water, reinjection into the groundwater, or reuse [e.g., land application, coal combustion residual (CCR) conditioning, etc.]. It is applicable to a variable mix of inorganic constituents, including dissolved Se.	Pump and treat (P&T) can be effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At AP-BCD, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, additional pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific zones for pumping for improved mass recovery efficiency/ effectiveness and to further evaluate the potential remedy performance.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.	Moderate. Proven approach, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system. A variety of sorption and precipitation approaches exist for ex-situ treatment of Se. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.
In-Situ Stabilization (ISS)	In-situ stabilization is a technique that uses mixing of subsurface soil or CCR with additives (typically Cementous in nature) to solidify the subsurface material in place and reduce future dissolution of compounds into groundwater. Additives typically include Portland cement, and the solidification is completed in-situ using large diameter augers.	Groundwater impacts would be addressed through source control and subsequent natural attenuation. This alternative would isolate/secure the source in a bound matrix, and over time, allow the concentrations of Se in downgradient groundwater to decline to below applicable standards.	In-situ stabilization can be a reliable corrective measure for Se in groundwater. Reliability is dependent on the permeability of the subsurface and effectiveness of the stabilization.	Difficult. Implementation of ISS will require a detailed design effort with bench scale treatability study to determine the appropriate amendment mix. Pilot testing will also be needed to verify the ability of equipment to solidify material at depth.	Potential impacts of the remedy will be negligible.
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation, or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including Se at AP-BCD are either physical (e.g., dilution, dispersion, flushing, and related processes) or chemical (sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation, and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, oxidation-reduction (redox) reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Se, the main attenuation mechanisms are biotic or abiotic reduction to elemental Se, precipitation of metal selenates or selenites, and sorption to iron oxides.	Physical and chemical MNA mechanisms for Se, including dilution, dispersion, sorption, and oxidation reduction reactions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. Attenuation mechanisms for Se are currently being evaluated.	Reliable as long as the aquifer conditions that result in Se attenuation remain favorable and/or are being enhanced and sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved Se, or in combination with a second technology.	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.
Permeable Reactive Barrier	PRB technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. A ZVI matrix is the most likely viable for the removal of Se downgradient of AP-D. Exact placement of the PRB would be contingent on finalization of a pre-design investigation and potential impacts further downgradient of the PRB would need to be considered. While ex-situ treatment of Se has been studied, there are limited examples of in-situ approaches like a PRB. PRBs can also be constructed as "funnel and gate" systems, where a barrier wall directs groundwater to a smaller "treatment gate" filled with reactive media.	ZVI has been shown to effectively address Se in groundwater in ex-situ treatment and would be expected to have applicability in in-situ PRBs. The approach is expected to achieve GWPS for Se as impacted groundwater passes through the reactive barrier. However, downgradient Se treatment may be required and potential geochemical changes downgradient of the PRB would need to be considered. Additional testing is required to select the appropriate sorptive media that will not result in generation of unwanted byproducts.	Reliable groundwater corrective measure technology, but loss of reactivity over time may require re-installation depending on the duration of the remedy. If not installed at the leading edge of the plume, may require additional corrective measures to address all impacts. Additional data collection, including conducting a bench and/or pilot study, is needed to better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.	Moderate to difficult. Trenching would be required to install a mix of reactive materials in the subsurface. Continuous trenching may be the most feasible construction method. Site-specific geology (i.e., partially weathered bedrock layer) poses a possible constructability challenge when attempting to key PRB material into competent bedrock. Installation methods and materials are readily available. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, ZVI has the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive, naturally occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.
Phytoremediation	Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-BCD, this corrective measure would likely use an engineered TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of Se within the root zone as well as incidental uptake of dissolved Se with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a TreeWell® system is effective for providing hydraulic containment of groundwater, and potential reduction of Se concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. Given the current groundwater flow velocities, the approach is considered viable. Additional aquifer testing and/or groundwater flow modeling may be needed to confirm the suitability at that time.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, and groundwater flow modeling to evaluate the required number and placement of TreeWell® units.	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed as "tree wells" in a large diameter boring to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (i.e., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment. Barrier walls can also be used in downgradient applications to limit discharge to a surface water feature or to reduce aquifer recharge from an adjacent surface water feature when groundwater extraction wells are placed near one. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier is required to avoid groundwater mounding behind the barrier. Though highly effective, vertical barrier walls may serve as groundwater dams, so mounding of groundwater behind barrier walls, or flow of groundwater around the ends of barrier walls, should be considered in corrective action design.	Barrier walls are a proven technology for groundwater cutoff at impoundments. Conventionally installed slurry walls are typically limited by installation depth, which is approximately 90 feet below ground surface (bgs). However, site-specific geologic and technology-specific considerations specific to AP-BCD may limit this depth to shallower installations. Within the context of AP-BCD, a barrier wall might be used in conjunction with a "funnel and gate" system for a PRB rather than a stand-alone technology. As such, groundwater with Se above GWPS could either be directed to "treatment gates" for passive treatment (in a PRB) or migration of impacted groundwater could be minimized via barrier wall installation. Additional subsurface investigations and compatibility testing with groundwater from the former CCR Unit will be needed.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater may be required. O&M requirements are expected to include upkeep of infrastructure components (e.g., pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Minimal impacts are expected following the construction of the remedy. Short-term impacts during remedy construction can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action. Groundwater extraction may unintentionally alter the geochemistry within the wall that may result in the mobilization of other constituents that require treatment.

Table 2
Evaluation of Remedial Technologies
Plant Branch AP-BCD, Putnam County, Georgia

Regulatory Citation for Criteria:	40 CFR 257.96(C)(2)	40 CFR 257.96(C)(3)			
Corrective Measure	Time Requirement to Begin/Complete	Institutional Requirements	Other Env or Public Health Requirements	Relative Costs	Evaluation of Retainage
Geochemical Approaches (In-Situ Injection)	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot- testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.	No institutional requirements are expected at this time.	None expected at this point. Potential for mobilization of redox-sensitive constituents exists during implementation of an anaerobic attenuation approach. Following installation, the remedy is passive.	Medium. Dependent on expanse of injection network required and injectate volume required per derived design parameters.	Remedial approach retained as a targeted injection layout may result in decreased concentrations of Se in groundwater below the GWPS.
Hydraulic Containment ("Pump and Treat")	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure. Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for Se.	Depending on the effluent management strategy, modifications to the existing National Pollutant Discharge Elimination System (NPDES) permit may be required or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen.	Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high. Dependent on remedy duration, complexity of above-ground treatment system, and volume of water processed.	During ash pond closure, there will be an on-site wastewater treatment plant that may be available for treatment of extracted groundwater. Therefore, P&T is a potentially viable interim corrective measure for Se in groundwater at Plant Branch and will be retained for further evaluation.
In-Situ Stabilization (ISS)	In-situ stabilization around the area of exceedance is predicted to take a number of years to complete, depending on the availability of specialized contractors, materials, and equipment.	No institutional requirements are expected at this time.	Changes to groundwater chemistry relative to the mobility of Appendix IV constituents following completion of ISS, where large volumes of amendments (i.e., Portland cement) are added to the subsurface, are unknown and would require pilot testing.	High. High cost for installation due to need for specialty contractors.	Not retained for further analysis; strategy is deemed impractical because AP-BCD will be closed by removal.
Monitored Natural Attenuation (MNA)	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented during closure of AP-BCD to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.	No institutional requirements are expected at this time.	Little to no physical disruption to remediation areas and no adverse construction related impacts are expected on the surrounding community.	Low. Minimal cost requirements.	Se attenuation mechanisms are currently being evaluated. MNA is a potentially viable corrective measure for Se in groundwater coupled with other corrective actions at Plant Branch post closure and will be retained for further evaluation.
Permeable Reactive Barrier	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, bench- and/or pilot testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.	No institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive. However, certain treatment media (such as ZVI) have the potential to mobilize naturally occurring constituents downgradient of the PRB.	Medium. Relatively high cost for installation. Minimal O&M requirements if replacement is not necessary.	Limited space is available at the leading edge of the Se impacts. Any PRB installed upgradient of this leading edge would likely require additional downgradient treatment (as a Se applicable amendment would likely not provide downgradient remedial support) and would have the potential of mobilization of other redox-sensitive constituents by likely generating a reducing environment. Therefore, PRB has not been retained for further consideration.
Phytoremediation	The design phase will require some groundwater modeling for optimal placement of the TreeWell® units, which may take up to 6 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.	No institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive and does not require external energy.	Medium. Mid-range cost for installation and minimal O&M requirements.	Given groundwater depth and velocity at the Site, phytoremediation presents a viable groundwater corrective measure although the limited physical space for installation of a phytoremediation system between the AP-D and the adjacent surface water bodies will need to be considered.
Subsurface Vertical Barrier Walls	Installation of a barrier wall can be accomplished relatively quickly (i.e., 6 to 12 months), depending on the final location and configuration. However, some design phase and additional aquifer and compatibility testing will be required, which may take up to 24 months. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration from a source area, it will likely have to be maintained and coupled with other approaches.	No institutional requirements are expected at this time.	Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high. Dependent on length and depth of wall, remedy duration and complexity of above-ground treatment system.	Because there is limited space available at the leading edge of the Se impacts and installation of a vertical barrier wall would be complex (require long term pumping) given the location of wetlands and other water features draining into Lake Sinclair, Subsurface Vertical Barrier Walls have not been retained for further consideration.

Table 3
Summary of Estimated Horizontal Hydraulic Conductivity Values
Plant Branch AP-BCD, Putnam County, Georgia

Well ID/Test No.	Screen Zone Material	Slug Test Type	Well Information						Horizontal Hydraulic Conductivity (Kh)					
			Depth to Sensor [ft bTOC]	Static DTW [ft bTOC]	DTW after Pressure Release [ft bTOC]	Top Screen Depth [ft TOC]	Bottom Screen Depth [ft bTOC]	Total Depth [ft bTOC]	Bouwer-Rice Kh [ft/day]	KGS or Hvorslev Kh [ft/day]	Geomean Kh [ft/day]	Bouwer-Rice Kh [cm/sec]	KGS or Hvorslev Kh [cm/sec]	Geomean Kh [cm/sec]
PZ-71I Test 1	Saprolite/PWR	Pneumatic	43.4	34.25	33.45	33.65	43.65	43.9	0.156	0.325	0.155	5.5E-05	1.1E-04	5.5E-05
PZ-71I Test 3		Pneumatic	43.4	34.25	33.46	33.65	43.65	43.9	0.063	0.093		2.2E-05	3.3E-05	
PZ-71I Test 4		Pneumatic	43.4	34.25	35.022	33.65	43.65	43.9	0.109	0.421		3.8E-05	1.5E-04	
PZ-72I Test 1	PWR/Bedrock	Pneumatic	36.32	25.58	30.223	26.57	36.57	36.82	1.243	1.423	1.363	4.4E-04	5.0E-04	4.8E-04
PZ-72I Test 2		Pneumatic	36.32	25.58	30.94	26.57	36.57	36.82	1.246	1.566		4.4E-04	5.5E-04	
PZ-73I Test 1	Saprolite/PWR/Bedrock	Pneumatic	27.15	7.47	16.693	17.4	27.4	27.65	0.720	0.817	0.795	2.5E-04	2.9E-04	2.8E-04
PZ-73I Test 2		Pneumatic	27.15	7.47	15.585	17.4	27.4	27.65	0.742	0.917		2.6E-04	3.2E-04	
PZ-74I Test 1	PWR	Pneumatic	50.4	28.1	37.205	40.65	50.65	50.9	1.059	1.206	1.089	3.7E-04	4.3E-04	3.8E-04
PZ-74I Test 2		Pneumatic	50.4	28.1	38.042	40.65	50.65	50.9	0.965	1.140		3.4E-04	4.0E-04	
PZ-75I Test 1	PWR	Pneumatic	30	17.9	25.667	20.25	30.25	30.5	1.312	1.755	1.406	4.6E-04	6.2E-04	5.0E-04
PZ-75I Test 2		Pneumatic	30	17.9	24.897	20.25	30.25	30.5	1.198	1.418		4.2E-04	5.0E-04	

Notes:

- Ho** Observed initial displacement (change in water level from static)
- H** Static water column height
- b** Saturated thickness of aquifer. If bottom of aquifer is unknown set b=bottom of well.
- Kv/Kh** Ratio of vertical to horizontal hydraulic conductivity
- d** Depth to top of well screen - this is the length from the water level (or top confining unit) to the top of the screen.
- L** Length of well screen
- T** Transducer Depth below the water table
- r(c)** Inside radius of well casing
- r(eq)** Radius of downhole equipment
- r(w)** Radius of well open or perforated interval
- r(sk)** Outside radius of well skin disturbed zone enveloping filter pack
- bTOC** Below Top Of Casing
- DTW** Depth To Water

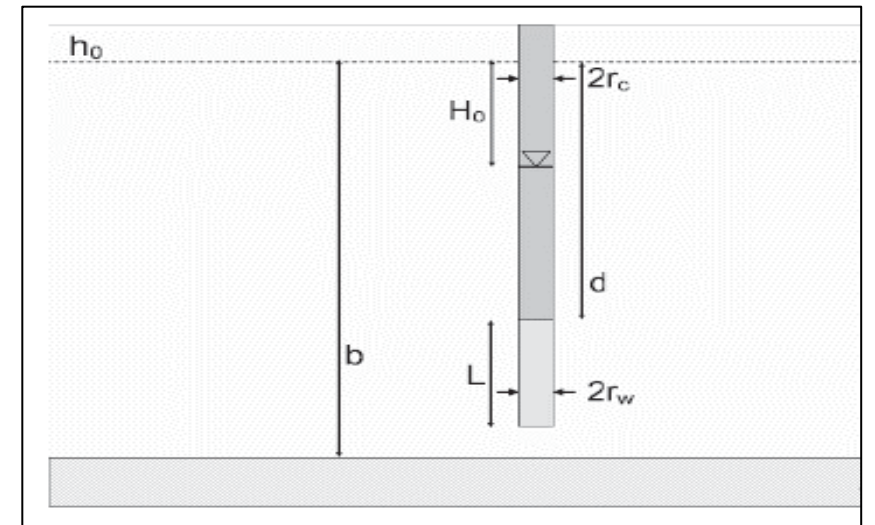


Table 4
Summary of Soil Total Metals
Plant Branch AP-BCD, Putnam County, Georgia

Location ID	PZ-69I	PZ-71I	PZ-72I	PZ-73I	PZ-74I	PZ-75I
Sample Depth	34 to 35 ft BGS	34 to 35 ft BGS	29 to 30 ft BGS	19-20 ft BGS	42 to 43 ft BGS	22 to 23 ft BGS
Sample Date	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023
Analysis^(1,2)						
Antimony	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	2.4	0.8	0.9	1.4	0.7	0.5
Barium	460	460	540	450	470	770
Beryllium	2.8	2.4	1.9	3	1.8	2.1
Cadmium	0.2	0.19	0.05	0.2	0.08	0.07
Chromium	65	140	92	210	97	140
Cobalt	29	14	16	26	29	12
Iron	56000	36000	41000	52000	49000	20000
Lead	16	15	16	18	16	37
Lithium	30	17	28	32	18	12
Manganese	1400	930	850	1400	860	450
Molybdenum	0.9	1.3	4.3	0.8	3	3.8
Selenium	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Thallium	0.54	0.4	0.49	0.62	0.3	0.42

Notes:

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

ft BGS = feet below ground surface

(1) Parameters are reported in units of microgram per gram (µg/g).

(2) Metals were analyzed by EPA Method 6010D, 6020B.

Table 5
 Summary of Cation Exchange Capacity, Sulfur, and Sulfide
 Plant Branch AP-BCD, Putnam County, Georgia

Location ID	PZ-69I	PZ-71I	PZ-72I	PZ-73I	PZ-74I	PZ-75I	Units
Sample Depth (ft BGS)	34 to 35 ft BGS	34 to 35 ft BGS	29 to 30 ft BGS	19-20 ft BGS	42 to 43 ft BGS	22 to 23 ft BGS	
Sample Date	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	
Analysis							
CEC	8.19	4.78	6.61	8.66	6.04	5.48	meq/100g
Sulfur	<14	21 J	26 J	26 J	23 J	27 J	mg/kg
Sulfide	<19	<16	<16	<15	<15	<16	mg/kg

Notes:

< = Indicates the parameter was not detected above the analytical method detection

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

meq/100 = milliequivalents per 100 grams

mg/kg = milligrams per kilogram

CEC = Cation Exchange Capacity

ft BGS = feet below ground surface

Table 6
 Summary of Whole Rock Analysis
 Plant Branch AP-BCD, Putnam County, Georgia

Location ID	PZ-69I	PZ-71I	PZ-72I	PZ-73I	PZ-74I	PZ-75I	Units
Sample Depth (ft BGS)	34 to 35 ft BGS	34 to 35 ft BGS	29 to 30 ft BGS	19-20 ft BGS	42 to 43 ft BGS	22 to 23 ft BGS	
Sample Date	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	
Mineral/Compound							
Al ₂ O ₃	18.81	16.4	14.75	16.97	14.05	13.64	%
CaO	4.42	4.1	3.33	5.42	5.3	2.54	%
Cr ₂ O ₃	0.01	0.03	0.02	0.04	0.01	0.02	%
Fe ₂ O ₃	9.64	5.56	5.95	8.19	6.87	2.92	%
K ₂ O	2.25	1.79	2.12	2.9	1.46	3.75	%
Loss on Ignition (LOI)	4.75	2.50	1.36	2.43	1.84	1.79	%
MgO	4.34	2.66	2.33	5.39	4.39	1.98	%
MnO	0.21	0.14	0.13	0.22	0.12	0.07	%
Na ₂ O	2.64	3.27	3.08	3.2	2.88	2.45	%
P ₂ O ₅	0.45	0.31	0.15	0.42	0.18	0.07	%
SiO ₂	51.3	62.83	66.48	54.08	62.35	70.8	%
TiO ₂	1.15	0.71	0.73	0.82	0.82	0.3	%
V ₂ O ₅	0.03	0.01	0.02	0.02	0.03	0.01	%
Sum	95.3	97.9	99.2	97.7	98.5	98.7	%

Notes:
 ft BGS = feet below ground

Table 7
Summary of X-ray Diffraction Analysis
Plant Branch AP-BCD, Putnam County, Georgia

Location ID		PZ-69I	PZ-71I	PZ-72I	PZ-73I	PZ-74I	PZ-75I	Units
Sample Depth (ft BGS)		34 to 35 ft BGS	34 to 35 ft BGS	29 to 30 ft BGS	19-20 ft BGS	42 to 43 ft BGS	22 to 23 ft BGS	
Sample Date		7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	7/17/2023	
Mineral/Compound								
Quartz	SiO ₂	12.7	28.3	40.4	12.8	29.4	40.0	wt. %
Actinolite	Ca ₂ (Mg,Fe) ₂ Si ₈ O ₂₂ (OH) ₂	8.4	4.1	0.2	13.5	18.3	5.9	wt. %
Albite	NaAlSi ₃ O ₈	34.7	42.8	47.9	44.4	35.7	28.9	wt. %
Orthoclase	KAlSi ₃ O ₈	1.7	1.4	1.3	1.4	0.5	--	wt. %
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄	9.5	3.8	--	--	--	--	wt. %
Muscovite	KAl ₂ (AlSi ₃ O ₁₀)(F,OH) ₂	5.2	2	0.6	0.8	0.4	1.6	wt. %
Cummingtonite	(Mg,Fe ²⁺) ₂ (Mg,Fe ²⁺) ₅ Si ₈ O ₂₃ (OH) ₂	0.7	--	--	--	--	--	wt. %
Biotite	K(Mg,Fe) ₃ (AlSi ₃ O ₁₀)(F,OH) ₂	18.3	13	9.7	20.6	12.1	3.8	wt. %
Beraunite	Fe ²⁺ Fe ³⁺ ₅ (OH) ₃ (PO ₄) ₄ ·4H ₂ O	4.5	2.6	-	0.7	3.6	0.1	wt. %
Covellite	CuS	0.8	0.3	--	--	--	--	wt. %
Diopside	CaMgSi ₂ O ₆	3.4	1.7	--	--	--	--	wt. %
Montmorillonite	(Na,Ca) _{0.33} (Al,Mg) ₂ (Si ₄ O ₁₀)(OH) ₂ ·nH ₂ O	--	--	--	2.9	--	0.3	wt. %
Rutile	TiO ₂	--	--	--	0.4	--	--	wt. %
Anorthite	CaAl ₂ Si ₂ O ₈	--	--	--	2.5	--	--	wt. %
Microcline	KAlSi ₃ O ₈	--	--	--	--	--	19.4	wt. %
Sum		100	100	100	100	100	100	wt. %

Notes:
 -- = Indicates the mineral was not identified.
 ft BGS = feet below ground surface
 wt. % = weight percent

Table 8
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

Well ID:	BRGWA-2S	BRGWA-2I	BRGWA-5S	BRGWA-5I	BRGWA-6S	BRGWA-23S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	
Sample Date:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/24/23	8/24/23	8/24/23	8/22/23	8/22/23	8/24/23	8/24/23	8/23/23	
Parameter ^(1,2,3,4)															
APPENDIX III	Boron	0.00738 J	0.00649 J	0.00764 J	0.00730 J	0.00611 J	0.0390	1.95	1.25	1.34	2.05	1.13	0.0444	0.689	0.372
	Calcium	5.02	12.6	14.9	14.3	3.79	5.95	69.6	74.4	71.4	414	45.1	34.0	347	214
	Chloride	2.14	1.90	3.37	3.53	2.34	2.41	8.47	4.81	6.08	3.35	4.30	16.5	4.67	14.8
	Fluoride	0.229	0.267	0.277	0.289	0.0787 J	0.114	0.250	0.302	0.0849 J	0.116	0.0477 J	0.185	0.243	0.499
	Sulfate	0.526	6.85	0.540	1.83	0.467	11.3	174	94.5	288	1,250	256	114	1,300	1,290
	TDS	36.0	81.0	73.0	80.0	30.0	70.0	354	309	418	1,920	412	242	1,970	2,180
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00380 J	< 0.002
	Barium	0.0135	0.00680	0.0352	0.0245	0.0143	0.0434	0.0271	0.0151	0.0174	0.0400	0.0243	0.0524	0.0280	0.0166
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00113	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00867
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.00744
	Chromium	0.00921 J	< 0.003	0.00472 J	0.00701 J	0.0132	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.000707 J	0.000707 J	0.000327 J	0.000474 J	< 0.0003	< 0.0003	0.00343	0.00601	0.00724	0.00183	< 0.0003	0.00221	< 0.0003	1.38
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	0.0209	< 0.003	< 0.003	< 0.003	0.00596 J	< 0.003	< 0.003	0.00349 J	0.0253	0.00392 J	< 0.003	0.0532	0.0393
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	0.00169	< 0.0002	0.000953 J	< 0.0002	< 0.0002	0.00141	< 0.0002	< 0.0002	0.00111	< 0.0002	0.000356 J	0.000296 J	< 0.0002
	Comb. Radium 226/228	0.592 U	0.857 U	1.31 U	1.36	1.89 U	2.16	1.21 U	2.23	3.02	2.71	2.33	0.607 U	2.39	1.55
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.210	< 0.0015	< 0.0015
Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2	27.3	11.0
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2	27.3	11.0
	Ferrous Iron	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.5	0.0	0.0	0.0	0.0
	Iron	0.0513 J	0.0904 J	0.263	0.0953 J	< 0.033	0.0877 J	0.101	0.0749 J	23.3	0.992	0.0935 J	0.160	0.291	0.409
	Magnesium	4.66	7.27	6.25	9.41	3.48	3.18	23.4	6.53	8.02	63.4	29.7	16.4	133	142
	Manganese	0.0283	0.0145	0.0105	0.00104 J	0.00120 J	0.00405 J	2.14	0.458	1.38	1.40	0.00207 J	0.211	0.00873	103
	Nitrate	0.218	< 0.033	0.203	0.266	0.646	0.212	< 0.033	0.0657 J	0.297	< 0.033	0.184	< 0.033	0.117	< 0.033
	Potassium	0.415	5.25	0.435	0.933	0.607	1.81	4.79	4.90	9.76	6.06	2.03	3.00	11.9	10.6
	Sodium	3.09	5.26	3.48	4.69	2.11	8.63	20.6	16.3	18.2	30.7	26.1	14.5	44.2	49.9
Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	
FIELD	ORP	42	84.58	51.92	77.51	114.4	106.11	113.73	72.49	106.59	76.21	57.55	88.16	132.55	133.78
	pH	5.97	6.91	6.09	6.36	6.27	5.89	6.14	6.01	4.48	6.44	5.98	5.71	5.69	5.12
	DO	1.31	0.24	1.87	5.49	7.07	5.21	0.13	0.2	0.12	0.07	5.77	0.77	1.21	0.25
	Specific Conductivity	50.35	151.72	118.14	117.55	65.26	95.4	480.61	285.51	357.61	2,008.22	0.75	324.97	1,393.91	1,455.1
	Temperature	19.8	21.91	19.97	20.03	21.75	25.82	20.06	21.65	23.85	22.56	37.48	22.11	23.12	21.76
	Turbidity	0.94	1.1	2.82	2.63	1.88	3.97	0.59	0.46	0.43	4.8	38	3.43	0.84	0.47

Notes:

-- = Parameter was not analyzed

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

TDS = total dissolved solids

ORP = oxidative reductive potential

DO = dissolved oxygen

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

(4) ORP is reported in milivolts (mV), specific conductance is reported in micro siemens per centimeter (uS/cm), temperature is reported in degrees celsius (°C), and turbidity is reported in nephelometric turbidity units (NTUs)

Table 8
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

Well ID:	BRGWC-52I	PZ-44	PZ-50D	PZ-51I	PZ-51D	PZ-58I	PZ-60I	PZ-61I	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I	PZ-79		
Sample Date:	8/24/23	8/23/23	8/23/23	8/23/23	8/24/23	8/23/23	8/23/23	8/22/23	8/23/23	8/23/23	8/23/23	8/24/23	8/24/23	8/23/23		
Parameter ^(1,2,3,4)																
APPENDIX III	Boron	1.87	1.35	0.285	0.430	0.0387	0.429	0.300	0.331	0.706	0.00834 J	0.318	1.47	1.51	1.95	
	Calcium	37.4	26.5	211	217	120	162	294	209	56.8	363	86.4	69.2	47.0	272	
	Chloride	6.28	6.83	10.1	9.43	22.2	11	25	15.7	6.81	36.5	23.0	14.8	6.84	2.56	
	Fluoride	0.188 J	0.195	0.193	0.0744 J	0.395	1.10	1.32	0.188	0.252	0.135	0.218	0.157	0.140	2.34	
	Sulfate	150	49.5	854	1,200	346	949	1,830	1,440	294	2,550	298	309	275	761	
	TDS	281	184	1,360	1,860	638	1,570	2,880	2,220	503	4,640	597	506	430	1,270	
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	
	Arsenic	< 0.002	< 0.002	0.00300 J	< 0.002	0.00408 J	< 0.002	< 0.002	< 0.002	< 0.002	0.00459 J	0.00342 J	< 0.002	< 0.002	--	
	Barium	0.0415	0.0555	0.0312	0.0149	0.0448	0.0173	0.0232	0.0127	0.0221	0.0177	0.107	0.0346	0.0513	--	
	Beryllium	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002	0.0328	0.0670	0.00145	< 0.002	0.00248	< 0.0002	< 0.0002	< 0.0002	--	
	Cadmium	< 0.0003	< 0.0003	< 0.0003	0.000679 J	< 0.0003	0.00453	0.0149	0.000496 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	--	
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	--	
	Cobalt	0.000317 J	< 0.0003	0.00991	0.0259	0.000427 J	0.556	3.79	0.757	0.0309	10.6	0.00106	0.000590 J	0.00105	--	
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000860 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	
	Lithium	0.0131	0.00560 J	0.0232	0.0221	0.00667 J	0.0468	0.0936	0.0106	0.00516 J	0.0126	0.00399 J	0.00711 J	0.00579 J	--	
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	--	
	Molybdenum	0.000782 J	< 0.0002	< 0.0002	< 0.0002	0.00142	< 0.0002	< 0.0002	< 0.0002	0.000539 J	< 0.0002	0.00625	0.000597 J	< 0.0002	--	
	Comb. Radium 226/228	6.36	0.477 U	2.12	5.22	1.27	3.71	4.48	0.868 U	2.31	0.877 U	1.62	0.811 U	3.11	--	
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00494 J	0.00430 J	0.00483 J	< 0.0015	0.0163	< 0.0015	0.0423	0.0696	0.076	
Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--		
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9	122	42.6	27.2	80.2	
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	
	Alkalinity (total) as CaCO3	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9	122	42.6	27.2	80.2	
	Ferrous Iron	1.0	0.0	4.0	0.0	1.5	7.0	1.5	0.5	1.5	1.75	0.5	1.5	0.5	0.75	
	Iron	0.956	0.0501 J	4.37	0.136	1.82	52.8	1.60	0.348	1.18	3.00	1.04	0.148	0.464	0.243	
	Magnesium	18.1	10.1	73.3	133	26.1	85.8	193	172	37.7	261	20.3	33.4	33.8	12.1	
	Manganese	0.549	0.478	2.56	49.9	1.34	31.4	175	107	6.97	380	0.851	0.0585	0.0957	0.256	
	Nitrate	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	0.0475 J	0.794	0.0737 J
	Potassium	4.65	2.44	12.0	11.2	11.3	7.79	13.8	6.30	7.62	13.5	11.4	3.66	5.45	59.4	
	Sodium	19.0	11.3	39.5	43.6	52.2	34.7	65.3	59.6	18.5	75.3	59.9	25.9	25.9	74.3	
Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	0.192	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033		
FIELD	ORP	22.44	87.08	-29.29	7.32	-95.73	152.57	360.45	28.38	-13.72	35.1	-136.07	92.58	95.6	125.03	
	pH	6.24	6.11	6.09	5.37	7.07	3.99	4.58	5.16	5.68	5.21	7.41	5.89	5.76	7.55	
	DO	0.32	0.2	0.56	0.16	0.35	0.07	0.05	0.13	0.07	0.19	0.18	1.45	2.47	4.08	
	Specific Conductivity	285.29	190.2	1,069.05	1,368.57	616.74	953.43	1,616.84	1,377.12	387.52	3,250.85	774.94	595.16	359.27	886.44	
	Temperature	20.98	23.27	23.11	22.99	22.38	23.83	23.1	24.19	21.9	24.52	22.54	23.25	21.03	25.79	
	Turbidity	0.45	0.48	2.26	0.44	2.78	0.59	2.22	1.68	0.4	1.5	1.6	2.24	4.71	1.51	

Notes:

-- = Parameter was not analyzed

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

TDS = total dissolved solids

ORP = oxidative reductive potential

DO = dissolved oxygen

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

(4) ORP is reported in millivolts (mV), specific conductance is reported in micro siemens per centimeter (uS/cm), temperature is reported in degrees celsius (°C), and turbidity is reported in nephelometric turbidity units (NTUs)

Table 9
Summary of Sulfide Analytical Data
Plant Branch AP-BCD and AP-E, Putnam County, Georgia

Well	Date	Laboratory	Analytical Method	Sulfide
BRA-BRGWA-2S	8/22/2023	GEL	4500-S2-D	< 0.033
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-BRGWA-2I	8/22/2023	GEL	4500-S2-D	< 0.033
	8/22/2023	Eurofins	4500-S2-D	< 0.81
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-BRGWA-5I	8/22/2023	GEL	4500-S2-D	< 0.033
	8/22/2023	Eurofins	4500-S2-F	< 0.83
BRA-BRGWA-6S	8/22/2023	GEL	4500-S2-D	< 0.033
	8/22/2023	Eurofins	4500-S2-F	< 0.89
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-BRGWA-50	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.83
BRA-PZ-44	8/23/2023	GEL	4500-S2-D	< 0.033
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-51I	8/23/2023	GEL	4500-S2-D	< 0.033
	10/31/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-51D	8/21/2023	GEL	4500-S2-D	0.192
	10/31/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-57I	8/21/2023	GEL	4500-S2-D	< 0.033
	8/21/2023	Eurofins	4500-S2-F	< 0.83
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-58I	8/23/2023	GEL	4500-S2-D	< 0.033
	11/1/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-59I	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	6
	10/31/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-61I	8/22/2023	GEL	4500-S2-D	< 0.033
	10/31/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-64I	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.81
	10/30/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-65I	8/21/2023	GEL	4500-S2-D	< 0.033
	8/21/2023	Eurofins	4500-S2-F	2.5
	10/31/2023	Eurofins	4500-S2-D	< 0.81
BRA-PZ-66I	10/31/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-76I	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.81
BRA-PZ-77I	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.89
BRA-BRGWC-33S	8/22/2023	GEL	4500-S2-D	< 0.033
	8/22/2023	Eurofins	4500-S2-F	< 0.83
BRA-BRGWC-35S	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.83
BRA-BRGWC-38S	8/23/2023	GEL	4500-S2-D	< 0.033
	8/23/2023	Eurofins	4500-S2-F	< 0.89

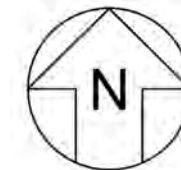
Notes:

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

Sulfide concentrations are reported in milligrams per liter (mg/L)

GEL = GEL Laboratories, LLC

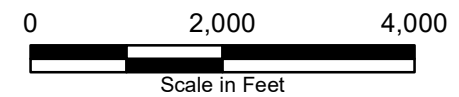
FIGURES



LEGEND
 - - - Plant Branch Property Boundary
 . . . Approximate Ash Pond Boundary



Notes:
 1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
 2. Property Boundary Provided by Southern Company Services.
 3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

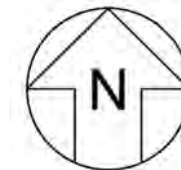
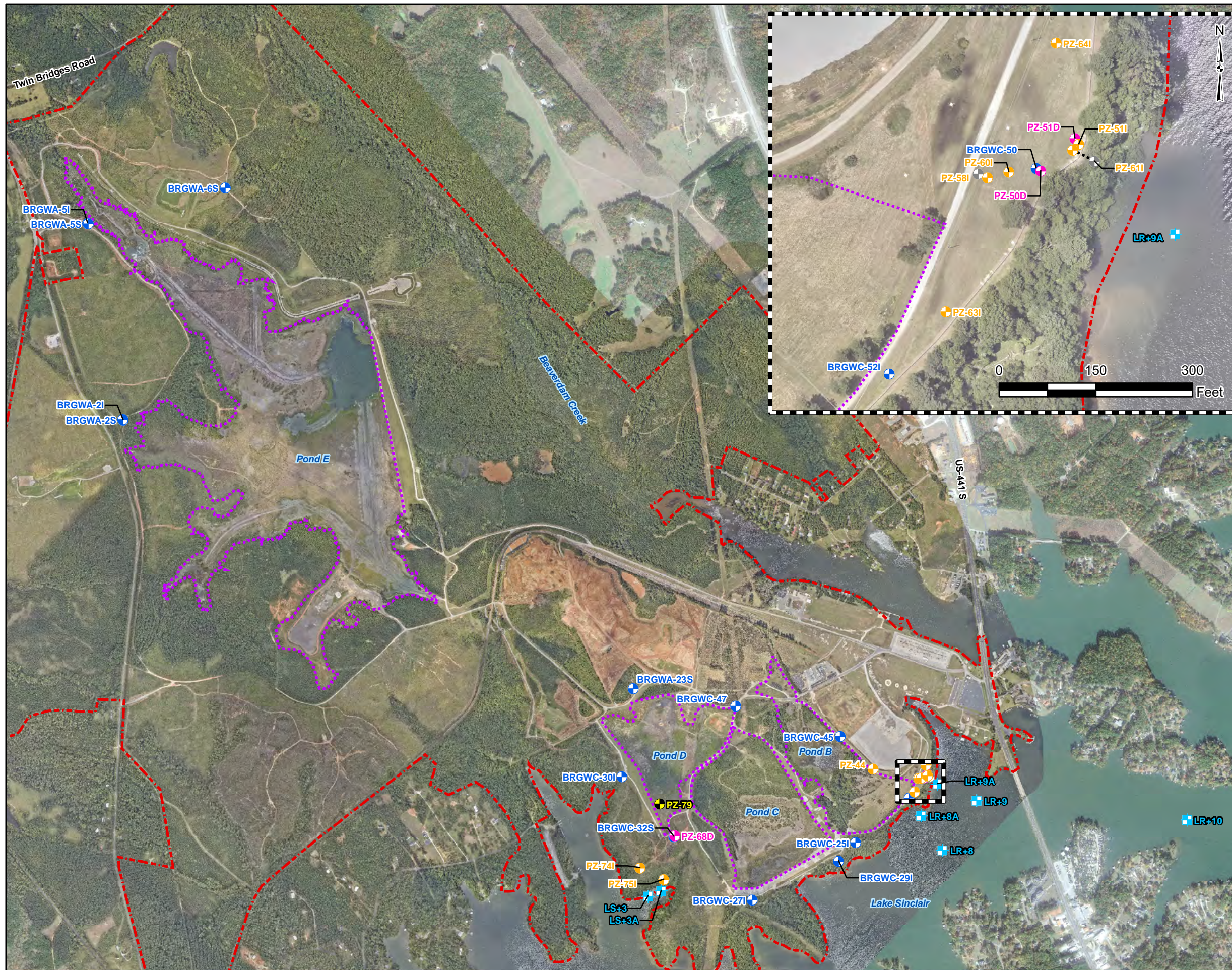


SITE LOCATION MAP
 GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

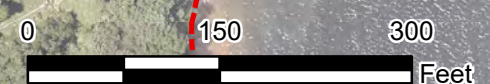
Prepared For:  Georgia Power
 Prepared By:  Geosyntec
 consultants

FIGURE
 1

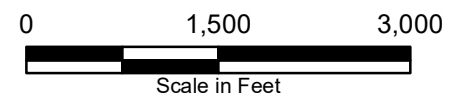
KENNESAW, GA FEBRUARY 2024



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Angled Well Screen
 - Temporary Interstitial Piezometer
 - Surface Water Sample Point
 - Plant Branch Property Boundary
 - Approximate Ash Pond Boundary



- Notes:**
1. Property Boundary Provided by Southern Company Services.
 2. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



MONITORING WELL NETWORK AND SURFACE WATER LOCATION MAP

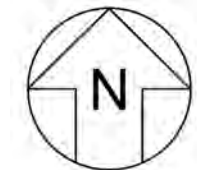
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

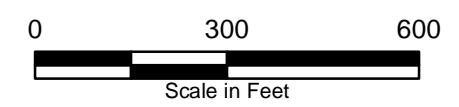
KENNESAW, GA FEBRUARY 2024

FIGURE
2



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Temporary Interstitial Piezometer
 - Surface Water Sample Point
 - Groundwater Elevation Iso-Contour (August 2023)
 - Selenium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
 - Plant Branch Property Boundary
 - Approximate Ash Pond Boundary

- Notes:**
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event.
 2. Concentrations are reported in milligrams per liter (mg/L).
 3. Water level elevation recorded on August 21, 2023.
 4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 5. The Groundwater Protection Standards (GWPS) for selenium is 0.050 mg/L.
 6. * - Data reported was not used to generate the iso-concentration contour.
 7. NS indicates location not sampled during event.
 8. Property Boundary Provided by Southern Company Services.
 9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

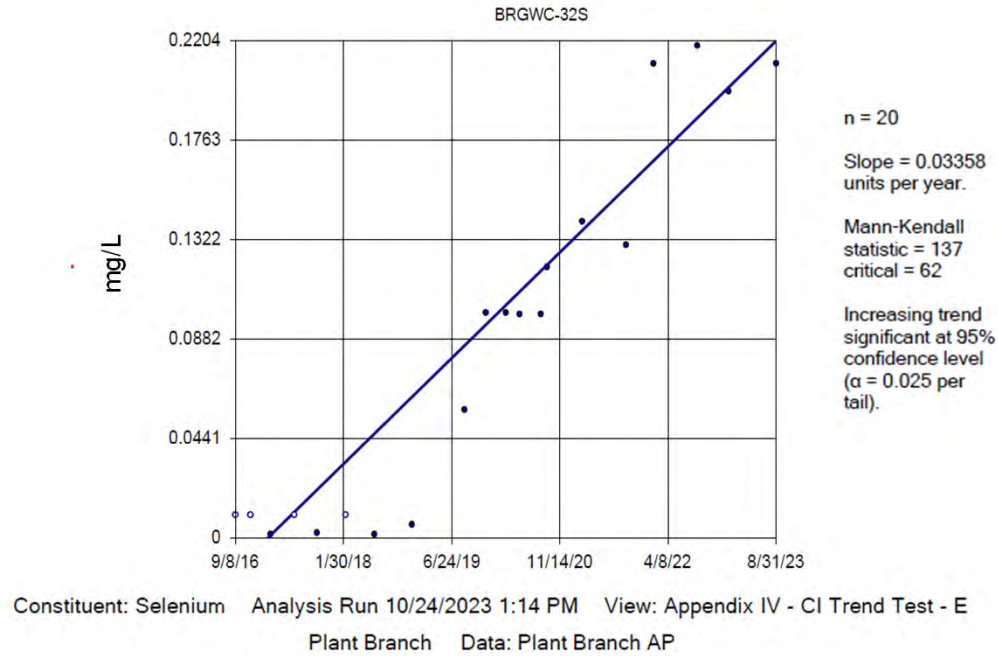


**ISO-CONCENTRATION MAP,
SELENIUM -
AUGUST 2023**

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For:	Georgia Power	FIGURE 3
Prepared By:	Geosyntec consultants	
KENNESAW, GA	FEBRUARY 2024	

Selenium



Notes:

1. Groundwater trends completed by Groundwater Stats Consulting using groundwater data collected for the full monitoring period through the August 2023 semiannual sampling event.
2. Trends shown are in wells where statistically significant levels (SSLs) have been identified.
3. mg/L = milligrams per liter

Selenium Concentration Trends

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For:



Prepared By:



Figure

4

Kennesaw, GA

February 2024

APPENDIX A

Potable Well Survey

Plant Branch

1078-1074 Milledgeville Rd
Eatonton, GA 31024

Inquiry Number: 07486311.1r
November 01, 2023

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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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 BRANCH
1078-1074 MILLEDGEVILLE RD
EATONTON, GA 31024

TARGET PROPERTY COORDINATES

Latitude (North):	33.202258 - 33° 12' 8.13"
Longitude (West):	83.322819 - 83° 19' 22.15"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	283479.7
UTM Y (Meters):	3675922.0
Elevation:	382 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33083-B3 LAKE SINCLAIR WEST, GA
Version Date:	1972

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

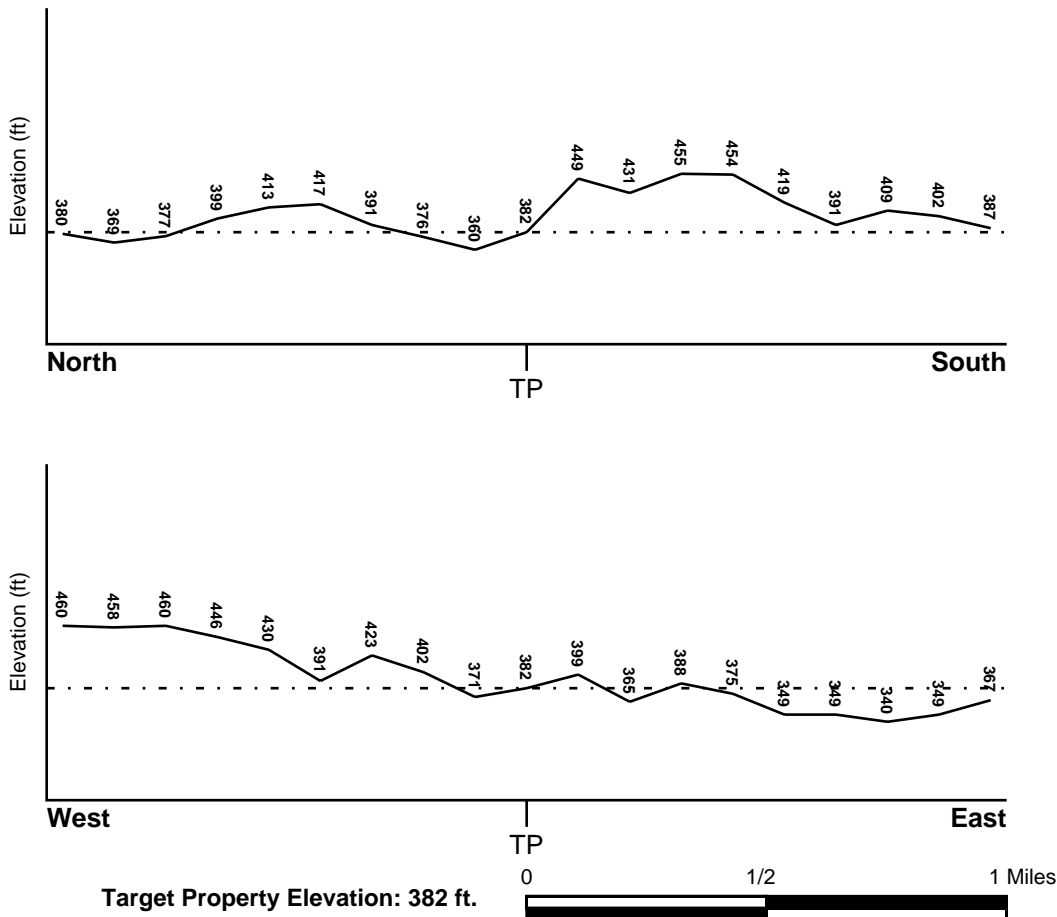
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
13009C0050D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LAKE SINCLAIR WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Pennsylvanian
Series: Felsic paragneiss and schist
Code: mm1 (*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).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CECIL

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
2	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
4	50 inches	75 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinator soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
loam
fine sandy loam

Surficial Soil Types: sandy loam
loam
fine sandy loam

Shallow Soil Types: clay
sandy clay
gravelly - loam

Deeper Soil Types: loamy fine sand
sandy loam
weathered bedrock

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000262392	1 - 2 Miles NNE
A2	USGS40000262391	1 - 2 Miles NNE
3	USGS40000262403	1 - 2 Miles NNE
B4	USGS40000262292	1 - 2 Miles WSW
5	USGS40000262254	1 - 2 Miles SW
B6	USGS40000262290	1 - 2 Miles WSW
9	USGS40000262386	1 - 2 Miles NE
10	USGS40000262278	1 - 2 Miles WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

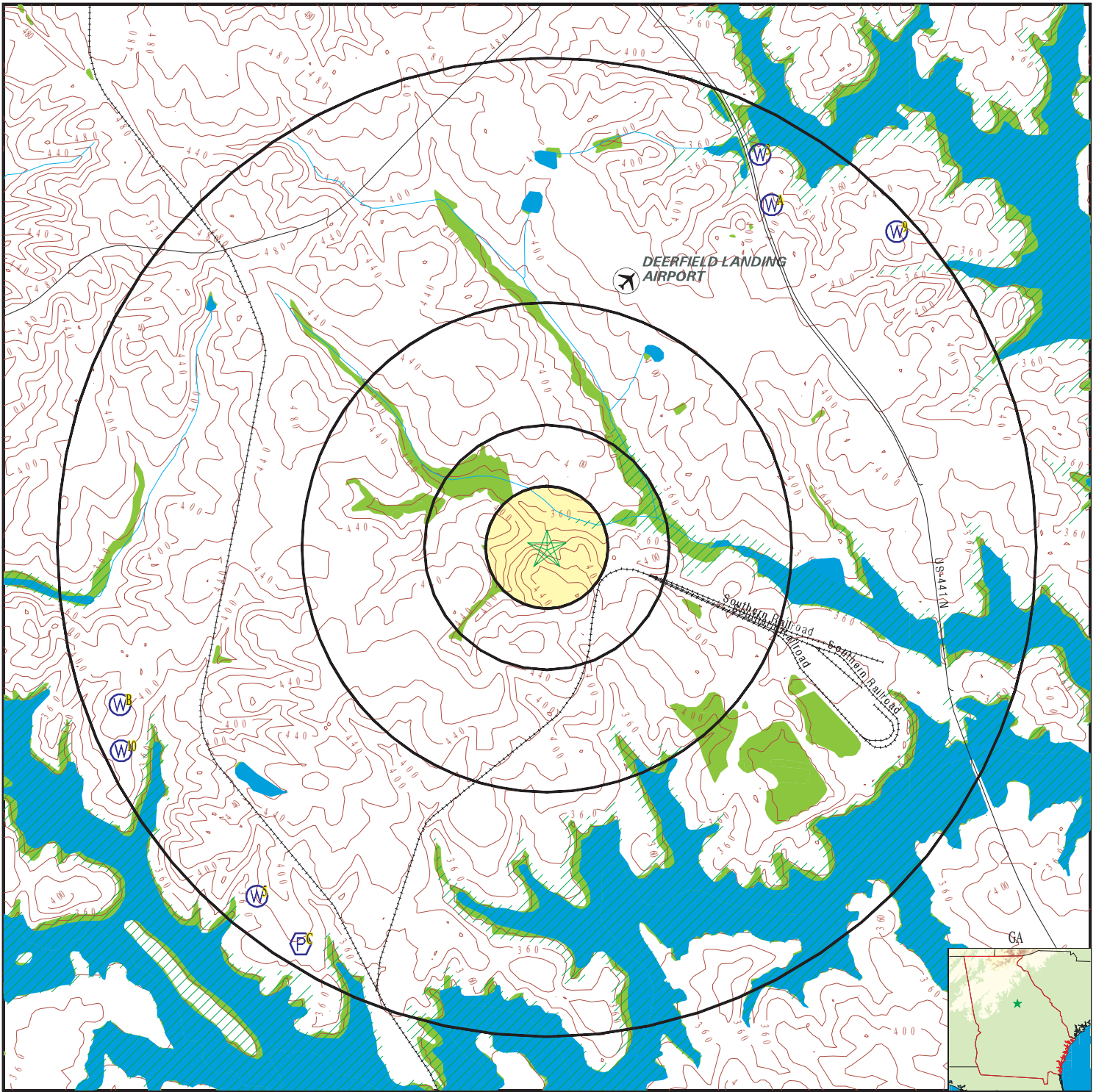
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
C7	GA2370006	1 - 2 Miles SSW
C8	GA2370008	1 - 2 Miles SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 07486311.1r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Wildlife Areas
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

SITE NAME: Plant Branch
 ADDRESS: 1078-1074 Milledgeville Rd
 Eatonton GA 31024
 LAT/LONG: 33.202258 / 83.322819

CLIENT: Geosyntec Consultants
 CONTACT: Anthony Szwest
 INQUIRY #: 07486311.1r
 DATE: November 01, 2023 3:20 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NNE
1 - 2 Miles
Higher

FED USGS USGS40000262392

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z016	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

A2
NNE
1 - 2 Miles
Higher

FED USGS USGS40000262391

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z017	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

3
NNE
1 - 2 Miles
Lower

FED USGS USGS40000262403

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z013	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

B4
WSW
1 - 2 Miles
Higher

FED USGS USGS40000262292

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z021	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**5
SW
1 - 2 Miles
Lower**

FED USGS USGS40000262254

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z020	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**B6
WSW
1 - 2 Miles
Higher**

FED USGS USGS40000262290

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z023	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**C7
SSW
1 - 2 Miles
Lower**

FRDS PWS GA2370006

Epa region:	04	State:	GA
Pwsid:	GA2370006	Pwsname:	PINE FOREST SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipsserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	1003
Pwssvconn:	388	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		
Pwsid:	GA2370006	Facid:	15132
Facname:	PARCEL B/451 AVANT RD PLANT #4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
Pwsid:	GA2370006	Facid:	16589
Facname:	160 BEAR CREEK EAST PLANT #5		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
Pwsid:	GA2370006	Facid:	16646
Facname:	143 EDGEWATER DRIVE PLANT #6		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
Pwsid:	GA2370006	Facid:	3517
Facname:	L525/308 LITTLE RIVER TRAILPLANT #3		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
PWS ID:	GA2370006	PWS name:	PINE FOREST SUBDIVISION
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	PINE FOREST SUBDIVISION
Source code:	Ground water	Population:	629
PWS ID:	GA2370006	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PINE FOREST SUBDIVISION
PWS type code:	C	Retail population served:	1003
Contact:	ARCHEBELLE, DONNA	Contact address:	663 GODFREY RD.
Contact address:	EATONTON	Contact city:	GA
Contact state:	31	Contact zip:	706-485-52
Contact telephone:	Not Reported		
County:	PUTNAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	629		
PWS ID:	GA2370006	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000564	System name:	PINE FOREST SUBDIVISION
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		
Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	335554	Longitude:	0832024
Latitude:	331044	Longitude:	0832025
State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	44.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		
State:	GA	Latitude degrees:	33
Latitude minutes:	19	Latitude seconds:	39.0000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude degrees: 83
Longitude seconds: 6.0000

Longitude minutes: 21

Violation id: 20101
State: GA
Contamination code: 1040
Violation code: 03
Rule code: 331
Violation measur: 0
State mcl: 0
Cmp edt: 12/31/2000

Orig code: S
Violation Year: 2000
Contamination Name: Nitrate
Violation name: Monitoring, Regular
Rule name: Nitrates
Unit of measure: Not Reported
Cmp bdt: 01/01/2000

Violation id: 20301
State: GA
Contamination code: 5000
Violation code: 52
Rule code: 350
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported

Orig code: S
Violation Year: 1997
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: 10/01/1997

Violation id: 20401
State: GA
Contamination code: 5000
Violation code: 52
Rule code: 350
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported

Orig code: S
Violation Year: 2000
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: 10/01/2000

Violation id: 20604
State: GA
Contamination code: 7000
Violation code: 71
Rule code: 420
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported

Orig code: S
Violation Year: 2004
Contamination Name: Consumer Confidence Rule
Violation name: CCR Complete Failure to Report
Rule name: CCR
Unit of measure: Not Reported
Cmp bdt: 07/01/2004

Violation id: 20705
State: GA
Contamination code: 5000
Violation code: 52
Rule code: 350
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported

Orig code: S
Violation Year: 2003
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: 10/01/2003

Violation id: 20805
State: GA
Contamination code: 7000
Violation code: 71
Rule code: 420
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported

Orig code: S
Violation Year: 2005
Contamination Name: Consumer Confidence Rule
Violation name: CCR Complete Failure to Report
Rule name: CCR
Unit of measure: Not Reported
Cmp bdt: 07/01/2005

Violation id: 21008
State: GA
Contamination code: 7000
Violation code: 71
Rule code: 420

Orig code: S
Violation Year: 2008
Contamination Name: Consumer Confidence Rule
Violation name: CCR Complete Failure to Report
Rule name: CCR

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		
Violation id:	21109	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	Not Reported		
Violation id:	21209	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	07/31/2009		
Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		
Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/24/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/22/2003
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/23/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/27/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/14/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/08/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	21008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/05/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/07/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	NITRATE	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	0		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	NITRATE	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Public Notif Received

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement: 0

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	NITRATE	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00		
Enforcement action:	State No Additional Formal Action Needed		
Violation measurement:	0		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20301
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/1997 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	9/20/2001 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20401
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2000 0:00:00	Compliance end date:	7/24/2001 0:00:00
Enforcement date:	7/22/2003 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20401
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2000 0:00:00	Compliance end date:	7/24/2001 0:00:00
Enforcement date:	7/24/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20604
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/23/2004 0:00:00
Enforcement date:	7/1/2004 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20604
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/23/2004 0:00:00
Enforcement date:	7/23/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	12/1/2004 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	12/1/2004 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/14/2005 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/27/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/8/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	21008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

C8
SSW
1 - 2 Miles
Lower

FRDS PWS GA2370008

Epa region:	04	State:	GA
Pwsid:	GA2370008	Pwsname:	TALL TIMBERS-OAK OPENINGS
Cityserved:	Not Reported	Stateserved:	GA
Zipsserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	733
Pwssvconn:	279	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		
Pwsid:	GA2370008	Facid:	15117
Facname:	WELLS 2 & 3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA2370008	Facid:	15126
Facname:	116 BLUEGILL RD/L#1 - WELL #5 PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	hypochlorination, post
Trtobjective:	disinfection		
Factypecode:	TP		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	GA2370008	Facid:	21184
Facname:	308 BLUEGILL ROAD-LOT 215 WELL #6 PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
PWS ID:	GA2370008	PWS name:	TALL TIMBERS-OAK OPENINGS
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	TALL TIMBERS-OAK OPENINGS
Source code:	Ground water	Population:	465
PWS ID:	GA2370008	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	PUTNAM
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	465
PWS ID:	GA2370008	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000465	System name:	TALL TIMBERS-OAK OPENINGS
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		
Population served:	101 - 500 Persons	Treatment:	Treated
Latitude:	335554	Longitude:	0832024
Latitude:	331042	Longitude:	0832025
State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	42.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		
Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		
Violation id:	10201	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		
Violation id:	10301	Orig code:	S
State:	GA	Violation Year:	1995
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1995

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Cmp edt: Not Reported

Violation id: 10501
 State: GA
 Contamination code: 5000
 Violation code: 52
 Rule code: 350
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2000
 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: 10/01/2000

Violation id: 10704
 State: GA
 Contamination code: 7000
 Violation code: 71
 Rule code: 420
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2004
 Contamination Name: Consumer Confidence Rule
 Violation name: CCR Complete Failure to Report
 Rule name: CCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2004

Violation id: 10805
 State: GA
 Contamination code: 7000
 Violation code: 71
 Rule code: 420
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2005
 Contamination Name: Consumer Confidence Rule
 Violation name: CCR Complete Failure to Report
 Rule name: CCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2005

Violation id: 10906
 State: GA
 Contamination code: 5000
 Violation code: 52
 Rule code: 350
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2005
 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: 10/01/2005

Violation id: 11008
 State: GA
 Contamination code: 7000
 Violation code: 71
 Rule code: 420
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2008
 Contamination Name: Consumer Confidence Rule
 Violation name: CCR Complete Failure to Report
 Rule name: CCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2008

PWS currently has or had major violation(s) or enforcement: Yes

Violation ID: 9200002
 PWS telephone: Not Reported
 Violation type: Max Contaminant Level, Monthly (TCR)
 Violation start date: 070192
 Violation period (months): 001
 Major violator: Not Reported
 Number of required samples: Not Reported
 Analysis method: Not Reported

Violation source ID: Not Reported
 Contaminant: COLIFORM (TCR)
 Violation end date: 073192
 Violation awareness date: Not Reported
 Maximum contaminant level: Not Reported
 Number of samples taken: Not Reported
 Analysis result: Not Reported

Violation ID: 10101
 Enforcemnt FY: 2001
 Enforcement Detail: St No addtl Formal Action needed
 Enforcement Category: Informal

Orig Code: S
 Enforcement Action: 09/06/2001

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/15/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/15/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/03/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		
Violation ID:	10201	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/03/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	10501	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/17/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10501	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/22/2003
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	10704	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	10704	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/23/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/08/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/12/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/17/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

**9
NE
1 - 2 Miles
Higher**

FED USGS USGS40000262386

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z015	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**10
WSW
1 - 2 Miles
Higher**

FED USGS USGS40000262278

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z022	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for PUTNAM County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 31024

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.190 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations

Georgia Department of Public Health

Telephone: (404) 657-2700

A listing of Private Water Well locations

Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX B

Boring Logs

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	Sample Type	Date & Time	Blow Counts	Recovery	SOIL/ROCK VISUAL DESCRIPTION	PID (ppm)	Lab Sample
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▽	▼		GR EN SS ST CO DP
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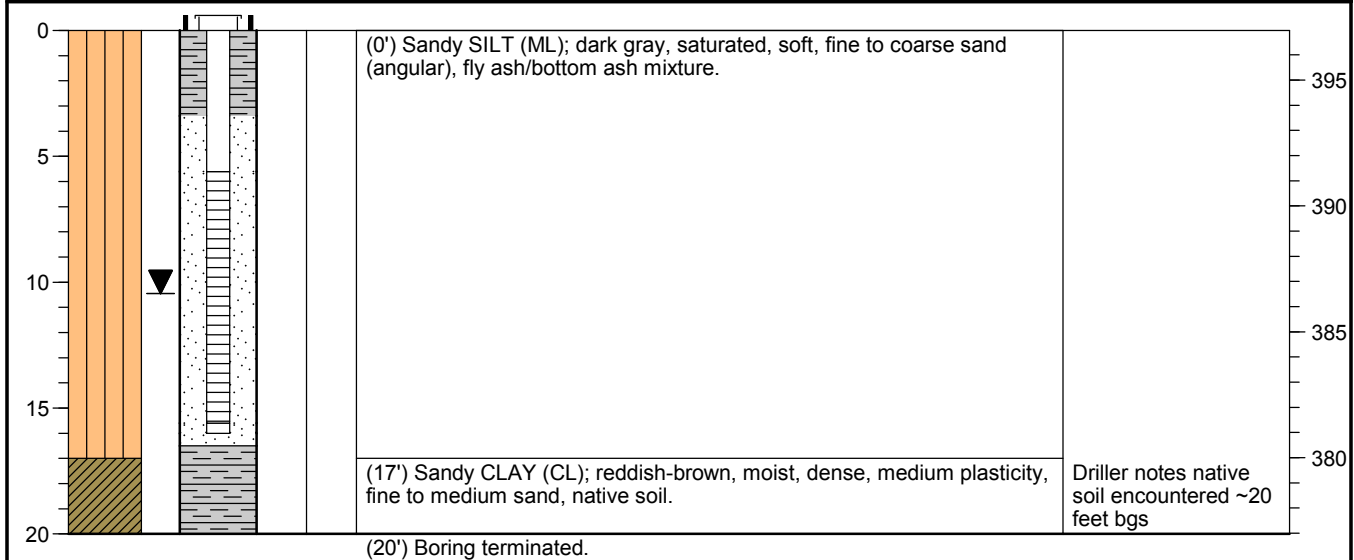
- ASPHALT
- CONCRETE
- FILL
- TOPSOIL
- COBBLES
- IGNEOUS Rock
- METAMORPHIC Rock
- SEDIMENTARY Rock
- PARTIALLY WEATHERED Rock (PWR)
- Well-graded GRAVEL (GW)
- Poorly graded GRAVEL (GP)
- Silty GRAVEL (GM)
- Clayey GRAVEL (GC)
- Well-graded GRAVEL with silt (GW-GM)
- Poorly graded GRAVEL with silt (GP-GM)
- Well-graded GRAVEL with clay (GW-GC)
- Poorly graded GRAVEL with clay (GP-GC)
- Well-graded SAND (SW)
- Poorly graded SAND (SP)
- Silty SAND (SM)
- Clayey SAND (SC)
- Well-graded SAND with silt (SW-SM)
- Poorly graded SAND with silt (SP-SM)
- Well-graded SAND with clay (SW-SC)
- Poorly graded SAND with clay (SP-SC)
- SILT (ML)
- Lean CLAY (CL)
- Organic SOIL (OL)
- Elastic SILT (MH)
- Fat CLAY (CH)
- Organic SOIL (OH)
- PEAT (PT)
- Volume Descriptors:
Trace = <5%
Few = 5-10%
Little = 15-25%
Some = 30-45%
Mostly = >=50%
- Water Level During Drilling
- Water Level at End of Drilling/in Completed Well
- Cap
- Riser
- Screen
- Cement
- Bentonite Grout
- Bentonite Seal
- Filter Pack
- Backfill
- Grab
- Encore
- Split Spoon
- Shelby Tube
- Core Barrel
- Direct Push
- PID reading | Lab Sample ID (soil | water)

0.0	SB1@2.5
-----	---------

NOTES:

Drilling Start Date: 08/11/2023	Boring Depth (ft): 20	Well Depth (ft TOC): 16
Drilling End Date: 08/12/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 10.45	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150 Comp. Crawler	Ground Surface Elevation: 396.97 NAVD 88	Screen Material: Sch 40 PVC Slotted
Driller: C. Griffis	Top of Casing Elevation: 400.02 NAVD 88	Seal Material(s): Grout, Bentonite
Logged By: E. Volk	North, East: 1161183.81 ft, 2558276.62 ft	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAVD 88)
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NOTES: Temporary piezometer completed with T posts and snow fence. Piezometer depth measured from the top of casing (TOC).

APPENDIX C

Analytical Laboratory Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Fitzgerald
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Generated 8/29/2023 9:31:45 AM

JOB DESCRIPTION

Plant Branch Ash Ponds

JOB NUMBER

680-239481-1

Eurofins Savannah

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.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
8/29/2023 9:31:45 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986



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Case Narrative

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Job ID: 680-239481-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-239481-1**

Receipt

The samples were received on 8/24/2023 11:50 AM. 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 5.1°C

General Chemistry

Method SM4500_S2_F: The following samples were analyzed with headspace in the sample container(s): BRA-BRGWA-2I (680-239481-1), BRA-BRGWA-5I (680-239481-2), BRA-BRGWA-6S (680-239481-3), BRA-BRGWC-50 (680-239481-4), BRA-PZ-57I (680-239481-5), BRA-PZ-65I (680-239481-8), BRA-BRGWC-33S (680-239481-9), BRA-BRGWC-35S (680-239481-10), BRA-BRGWC-38S (680-239481-11), BRA-PZ-77I (680-239481-13), (680-239481-B-2 MS) and (680-239481-B-2 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239481-1	BRA-BRGWA-2I	Water	08/22/23 10:12	08/24/23 11:50
680-239481-2	BRA-BRGWA-5I	Water	08/22/23 10:10	08/24/23 11:50
680-239481-3	BRA-BRGWA-6S	Water	08/22/23 10:15	08/24/23 11:50
680-239481-4	BRA-BRGWC-50	Water	08/23/23 11:00	08/24/23 11:50
680-239481-5	BRA-PZ-57I	Water	08/21/23 17:55	08/24/23 11:50
680-239481-6	BRA-PZ-59I	Water	08/23/23 11:40	08/24/23 11:50
680-239481-7	BRA-PZ-64I	Water	08/23/23 10:55	08/24/23 11:50
680-239481-8	BRA-PZ-65I	Water	08/21/23 17:45	08/24/23 11:50
680-239481-9	BRA-BRGWC-33S	Water	08/22/23 12:10	08/24/23 11:50
680-239481-10	BRA-BRGWC-35S	Water	08/23/23 12:01	08/24/23 11:50
680-239481-11	BRA-BRGWC-38S	Water	08/23/23 12:12	08/24/23 11:50
680-239481-12	BRA-PZ-76I	Water	08/23/23 10:37	08/24/23 11:50
680-239481-13	BRA-PZ-77I	Water	08/23/23 10:26	08/24/23 11:50



Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWA-2I

Lab Sample ID: 680-239481-1

No Detections.

Client Sample ID: BRA-BRGWA-5I

Lab Sample ID: 680-239481-2

No Detections.

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-239481-3

No Detections.

Client Sample ID: BRA-BRGWC-50

Lab Sample ID: 680-239481-4

No Detections.

Client Sample ID: BRA-PZ-57I

Lab Sample ID: 680-239481-5

No Detections.

Client Sample ID: BRA-PZ-59I

Lab Sample ID: 680-239481-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	6.0		0.81	0.81	mg/L	1		4500 S2 F-2011	Total/NA

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-239481-7

No Detections.

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-239481-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	2.5		0.83	0.83	mg/L	1		4500 S2 F-2011	Total/NA

Client Sample ID: BRA-BRGWC-33S

Lab Sample ID: 680-239481-9

No Detections.

Client Sample ID: BRA-BRGWC-35S

Lab Sample ID: 680-239481-10

No Detections.

Client Sample ID: BRA-BRGWC-38S

Lab Sample ID: 680-239481-11

No Detections.

Client Sample ID: BRA-PZ-76I

Lab Sample ID: 680-239481-12

No Detections.

Client Sample ID: BRA-PZ-77I

Lab Sample ID: 680-239481-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWA-2I

Lab Sample ID: 680-239481-1

Date Collected: 08/22/23 10:12

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/25/23 12:23	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWA-5I

Lab Sample ID: 680-239481-2

Date Collected: 08/22/23 10:10

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-239481-3

Date Collected: 08/22/23 10:15

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.89		0.89	0.89	mg/L			08/25/23 12:23	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWC-50

Lab Sample ID: 680-239481-4

Date Collected: 08/23/23 11:00

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-571

Lab Sample ID: 680-239481-5

Date Collected: 08/21/23 17:55

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-59I

Lab Sample ID: 680-239481-6

Date Collected: 08/23/23 11:40

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	6.0		0.81	0.81	mg/L			08/25/23 12:23	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-239481-7

Date Collected: 08/23/23 10:55

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-239481-8

Date Collected: 08/21/23 17:45

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.5		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWC-33S

Lab Sample ID: 680-239481-9

Date Collected: 08/22/23 12:10

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWC-35S

Lab Sample ID: 680-239481-10

Date Collected: 08/23/23 12:01

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWC-38S

Lab Sample ID: 680-239481-11

Date Collected: 08/23/23 12:12

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.89		0.89	0.89	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-761

Lab Sample ID: 680-239481-12

Date Collected: 08/23/23 10:37

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/25/23 12:23	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-771

Lab Sample ID: 680-239481-13

Date Collected: 08/23/23 10:26

Matrix: Water

Date Received: 08/24/23 11:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.89		0.89	0.89	mg/L			08/25/23 12:23	1

- 1
- 2
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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-795173/1
Matrix: Water
Analysis Batch: 795173

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			08/25/23 12:23	1

Lab Sample ID: LCS 680-795173/2
Matrix: Water
Analysis Batch: 795173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.95		mg/L		100	75 - 125

Lab Sample ID: LCSD 680-795173/3
Matrix: Water
Analysis Batch: 795173

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
Sulfide	10.0	9.64		mg/L		96	75 - 125	3	30

Lab Sample ID: 680-239481-2 MS
Matrix: Water
Analysis Batch: 795173

Client Sample ID: BRA-BRGWA-5I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.83		6.94	8.55		mg/L		123	75 - 125

Lab Sample ID: 680-239481-2 MSD
Matrix: Water
Analysis Batch: 795173

Client Sample ID: BRA-BRGWA-5I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.83		6.94	8.55		mg/L		123	75 - 125	0	30

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

General Chemistry

Analysis Batch: 795173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239481-1	BRA-BRGWA-2I	Total/NA	Water	4500 S2 F-2011	
680-239481-2	BRA-BRGWA-5I	Total/NA	Water	4500 S2 F-2011	
680-239481-3	BRA-BRGWA-6S	Total/NA	Water	4500 S2 F-2011	
680-239481-4	BRA-BRGWC-50	Total/NA	Water	4500 S2 F-2011	
680-239481-5	BRA-PZ-57I	Total/NA	Water	4500 S2 F-2011	
680-239481-6	BRA-PZ-59I	Total/NA	Water	4500 S2 F-2011	
680-239481-7	BRA-PZ-64I	Total/NA	Water	4500 S2 F-2011	
680-239481-8	BRA-PZ-65I	Total/NA	Water	4500 S2 F-2011	
680-239481-9	BRA-BRGWC-33S	Total/NA	Water	4500 S2 F-2011	
680-239481-10	BRA-BRGWC-35S	Total/NA	Water	4500 S2 F-2011	
680-239481-11	BRA-BRGWC-38S	Total/NA	Water	4500 S2 F-2011	
680-239481-12	BRA-PZ-76I	Total/NA	Water	4500 S2 F-2011	
680-239481-13	BRA-PZ-77I	Total/NA	Water	4500 S2 F-2011	
MB 680-795173/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-795173/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-795173/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-239481-2 MS	BRA-BRGWA-5I	Total/NA	Water	4500 S2 F-2011	
680-239481-2 MSD	BRA-BRGWA-5I	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-BRGWA-21

Lab Sample ID: 680-239481-1

Date Collected: 08/22/23 10:12

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWA-51

Lab Sample ID: 680-239481-2

Date Collected: 08/22/23 10:10

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-239481-3

Date Collected: 08/22/23 10:15

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWC-50

Lab Sample ID: 680-239481-4

Date Collected: 08/23/23 11:00

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-571

Lab Sample ID: 680-239481-5

Date Collected: 08/21/23 17:55

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-591

Lab Sample ID: 680-239481-6

Date Collected: 08/23/23 11:40

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Eurofins Savannah

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-239481-7

Date Collected: 08/23/23 10:55

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-239481-8

Date Collected: 08/21/23 17:45

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWC-33S

Lab Sample ID: 680-239481-9

Date Collected: 08/22/23 12:10

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWC-35S

Lab Sample ID: 680-239481-10

Date Collected: 08/23/23 12:01

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWC-38S

Lab Sample ID: 680-239481-11

Date Collected: 08/23/23 12:12

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-76I

Lab Sample ID: 680-239481-12

Date Collected: 08/23/23 10:37

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Client Sample ID: BRA-PZ-771

Lab Sample ID: 680-239481-13

Date Collected: 08/23/23 10:26

Matrix: Water

Date Received: 08/24/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	795173	08/25/23 12:23	JAS	EET SAV
Instrument ID: NoEquip										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Environment Testing
America

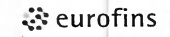
Client Information		Sampler: <i>J. Boydell</i>	ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: Lauren Fitzgerald		Phone: <i>770-544-5498</i>		E-Mail: <i>david.fuller@et.eurofinsus.com</i>		Page:
Company: Geosyntec Consultants Inc				Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Sulfide (SM 4500)		Total Number of containers
City: Kennesaw		TAT Requested (days):				
State, Zip: GA, 30144		Lab Project #: 68029735				
Phone:		PO #:				
Email: <u>SCS Contacts / Geosyntec Contacts</u>		Project #:				
Project Name: Plant Branch Ash Ponds		SSOW#:				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site: Georgia						Other:
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WO=quality control)	Special Instructions/Note:
				Preservation Code:		
BRA-BRGWA-2I	08/22/23	1012	G	WG	N N X	
BRA-BRGWA-5I	08/22/23	1010	G	WG	N N X	
BRA-BRGWA-6S	08/22/23	1015	G	WG	N N X	
BRA-BRGWC-50	08/23/23	1100	G	WG	N N X	
BRA-PZ-57I	08/21/23	1755	G	WG	N N X	
BRA-PZ-59I	08/23/23	1140	G	WG	N N X	
BRA-PZ-64I	08/23/23	1055	G	WG	N N X	
BRA-PZ-65I	08/21/23	1745	G	WG	N N X	
BRA-BRGWC-33S	08/22/23	1210	G	WG	N N X	
BRA-BRGWC-35S	08/23/23	1201	G	WG	N N X	
BRA-BRGWC-38S	08/23/23	1212	G	WG	N N X	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: <i>8/24/23 0831</i>	Company: <i>ACC</i>	Received by: <i>J. Tally</i>		Date/Time: <i>8/24/23 0831</i>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Relinquished by:		Date/Time:	Company:	Received by: <i>C. M...</i>		Date/Time: <i>8/24/23 1150</i>
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>5.0/5.1</i>		



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Environment Testing
America

Client Information Client Contact: Lauren Fitzgerald Company: Geosyntec Consultants Inc Address: 1255 Roberts Blvd, NW Suite 200 City: Kennesaw State, Zip: GA, 30144 Phone: Email: SCS Contacts / Geosyntec Contacts Project Name: Plant Branch Ash Ponds Site: Georgia				Sampler: T. Goble, J. Benstead ^{ACC}		Lab PM: Fuller, David			Carrier Tracking No(s):			COC No:											
				Phone: 770-546-5448		E-Mail: david.fuller@et.eurofinsus.com						Page:											
				Analysis Requested										Job #:									
				Field Filtered Sample (Yes or No) Performed MS/MSD (Yes or No) Sulfide (SM 4500)										Due Date Requested:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Z - other (specify)						Other:	
														TAT Requested (days):								Special Instructions/Note:	
														Lab Project #: 68029735									
														PO #:									
				Project #:																			
				SSOW#:																			
Sample Identification				Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)			Total Number of containers												
				Preservation Code:																			
BRA-PZ-76I				08/23/23	1037	G	WG	N	N	X	(SB) 2												
BRA-PZ-77I				08/23/23	1026	G	WG	N	N	X	(SB) 2												
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological								<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Deliverable Requested: I, II, III, IV, Other (specify)								Special Instructions/QC Requirements:															
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by:				Date/Time: 8/24/23 0831				Company: ACC				Received by: J. Tracy Jank 7.											
Relinquished by:				Date/Time:				Company:				Date/Time:											
Relinquished by:				Date/Time:				Company:				Received by: C. Mingo											
												Date/Time: 8/24/23 1150											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:															

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Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 680-239481-1

Login Number: 239481

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-239481-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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September 06, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 634447

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. 634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023


Analysis Methods and Analysis Dates



<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S Project: GPCC00101
Sample ID: 634447001 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:06
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S Project: GPCC00101
Sample ID: 634447001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S	Project: GPCC00101
Sample ID: 634447002	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 10:05	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S Project: GPCC00101
Sample ID: 634447002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO ₃)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-51 Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:10
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S	Project: GPCC00101
Sample ID: 634447004	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 10:15	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S Project: GPCC00101
Sample ID: 634447004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO ₃)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-21 Project: GPCC00101
Sample ID: 634447005 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:12
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I	Project: GPCC00101
Sample ID: 634447005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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QC Summary

Report Date: September 6, 2023

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 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634447

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
QC1205497371	634145003	DUP									
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23	15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L			95.6 (90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L			98.3 (90%-110%)			
Nitrate-N	2.50			2.36	mg/L			94.3 (90%-110%)			
Sulfate	10.0			9.76	mg/L			97.6 (90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497373	634145003	PS									
Chloride	5.00	3.15		8.45	mg/L			106 (90%-110%)		08/24/23	15:36

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165	LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23	22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium			U	ND	mg/L				PRB	08/31/23	22:18
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23	22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23	22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)	PRB	08/31/23	22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)			
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Calcium			4170	869	ug/L	4.2		(0%-20%)		09/01/23	09:04
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Cobalt			3.84	J	0.796	ug/L	3.56	(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23	22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24
QC1205499045	LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499048	634447002	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077	634352015	DUP									
Total Dissolved Solids	U	ND	U	ND	mg/L	N/A			CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Batch	2482658										
QC1205499081	634205010	DUP									
Total Dissolved Solids		400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23	14:03
QC1205499080	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23	14:03
QC1205499079	MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23	14:03
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3			65.8	65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)			65.8	65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3			80.2	80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)			80.2	80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339	LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344	LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341	634448001	MS									
Alkalinity, Total as CaCO3	50.0		65.8	118	mg/L		104	(80%-120%)		08/29/23	11:54

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
QC1205502343	634643001	MS									
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634447**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482658

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

63447 634450

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - Upgradient
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: J. Braswell ACC
 Send Results To: SCS & Geosyntec Contacts
 Phone # 404-506-7116
 Fax # _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (r)	Field Filtered (r)	Sample Matrix (r)	Should this sample be considered:		Sample Analysis Requested (6) (Fill in the number of containers for each test)					Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2	
						Yes, please supply isotopic info.	(7) Known or possible Hazards	Total number of containers	Cl, P, SO4, TDS, NO3 EPA 300, SM 254C	Total, Carb, & Biomb Allk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500
BRA-BRGWA-2S	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-5S	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-5I	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-6S	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-2I	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/23/23	6:32	<i>[Signature]</i>	8/23/23	8:38
<i>[Signature]</i>	8/23/23	1:00	<i>[Signature]</i>	8/23/23	1:30

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Se,Ti,V,Zn
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, ED = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446

Client: EXPP		SDG/AR/COC/Work Order:				
Received By: MVH		Date Received: 08-23-2023				
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other COOLER 2-3°C COOLER 4-1°C COOLER 6-1°C COOLER 1-2°C COOLER 3-1°C COOLERS 5-2°C				
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.				
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___				
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.				
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/hr Classified as: Rad 1 Rad 2 Rad 3				
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.				
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:				
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt	
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____	
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):	
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: MOZA-P2-G11, BRA-BREWA-S1, BRA-BREWA-23S,	
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Are liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:	
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:	
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:	
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)	
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed): BRA-P2-13S, BRA-BREWA-2S, BRA-BREWA-6S, BRA-BREWC-32S, BRA-BRAWA-2I, BRA-BREWC-37S, BRA-BRWL-34S, BRA-BRWL-30I Sulfide Samples didnt hold proper preservation.						

PM (or PMA) review: Initials **AT** Date **8/25/23** Page **1** of **1**

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [[gel.com](http://www.gel.com)]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 07, 2023

Joju Abraham
 Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APE
 Work Orders: 634615 and 634441

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023 and August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. 634615002(BRA-BRGWC-35S), 634615003(BRA-BRGWC-36S), 634615004(BRA-BRGWC-38S), 634615007(BRA-APE-FD-05), 634615008(BRA-APE-FB-08). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634441001	BRA-BRGWC-33S	Ground Water	22/08/23 12:10	23/08/23 13:00
634441002	BRA-APE-FD-04	Ground Water	22/08/23 12:00	23/08/23 13:00
634441003	BRA-BRGWC-34S	Ground Water	22/08/23 14:35	23/08/23 13:00
634441004	BRA-APE-FB-07	Water	22/08/23 15:10	23/08/23 13:00
634441005	BRA-BRGWC-37S	Ground Water	22/08/23 16:51	23/08/23 13:00
634441006	BRA-PZ-13S	Ground Water	22/08/23 16:47	23/08/23 13:00
634615001	BRA-BRGWC-17S	Ground Water	23/08/23 14:05	24/08/23 12:43
634615002	BRA-BRGWC-35S	Ground Water	23/08/23 12:01	24/08/23 12:43
634615003	BRA-BRGWC-36S	Ground Water	23/08/23 15:56	24/08/23 12:43
634615004	BRA-BRGWC-38S	Ground Water	23/08/23 12:12	24/08/23 12:43
634615005	BRA-PZ-52D	Ground Water	23/08/23 13:46	24/08/23 12:43
634615006	BRA-PZ-70I	Ground Water	23/08/23 16:12	24/08/23 12:43
634615007	BRA-APE-FD-05	Ground Water	23/08/23 12:00	24/08/23 12:43
634615008	BRA-APE-FB-08	Water	23/08/23 16:30	24/08/23 12:43



634615009	BRA-APE-EB-09	Water	23/08/23 16:45	24/08/23 12:43
634615010	BRA-APE-EB-10	Water	23/08/23 13:15	24/08/23 12:43

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	25-AUG-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	24-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	28-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Erin J. Trent". The signature is written in a cursive style with a large, stylized initial "E".

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634615 GEL Work Order: 634615

The Qualifiers in this report are defined as follows:


- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634441 GEL Work Order: 634441

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-17S Project: GPCC00101
Sample ID: 634615001 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 14:05
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.18	0.0670	0.200	mg/L		1	HXC1	08/24/23	1915	2482580	1
Fluoride		0.484	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0940	0.0330	0.100	mg/L		1					
Sulfate		180	2.66	8.00	mg/L		20	HXC1	08/25/23	0430	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0927	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2105	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0445	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0601	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0115	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0446	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		24.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.19	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00214	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		47.9	0.400	1.00	mg/L	1.00	5	PRB	09/07/23	0958	2482705	5
Sodium		24.3	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		391	2.38	10.0	mg/L			CH6	08/28/23	1550	2483702	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	7

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-17S	Project: GPCC00101
Sample ID: 634615001	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.8	0.725	2.00	mg/L			JW2	08/29/23	1156	2484392	8
Bicarbonate alkalinity (CaCO3)		71.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S	Project: GPCC00101
Sample ID: 634615002	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:01	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.21	0.0670	0.200	mg/L		1	HXC1	08/24/23	1712	2482580	1
Fluoride		0.347	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		269	5.32	16.0	mg/L		40	HXC1	08/25/23	0603	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0929	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2130	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0286	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00592	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		32.0	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0108	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.93	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.36	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1013	2482705	5
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Beryllium	J	0.000200	0.000200	0.000500	mg/L	1.00	1	PRB	09/06/23	2355	2482705	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		18.5	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		485	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1254	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S Project: GPCC00101
Sample ID: 634615002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.7	0.725	2.00	mg/L			JW2	08/29/23	1159	2484392	9
Bicarbonate alkalinity (CaCO3)		52.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-36S Project: GPCC00101
Sample ID: 634615003 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 15:56
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		223	2.66	8.00	mg/L		20	HXC1	08/25/23	0735	2482580	1
Fluoride		0.301	0.0660	0.200	mg/L		2	HXC1	08/25/23	0806	2482580	2
Chloride		8.26	0.0670	0.200	mg/L		1	HXC1	08/24/23	1946	2482580	3
Nitrate-N		0.136	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0930	2482668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2134	2482705	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00649	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0387	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.2	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00167	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.40	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00173	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/06/23	2359	2482705	6
Calcium		43.4	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		36.9	0.0800	0.250	mg/L	1.00	1					
Boron		1.04	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1015	2482705	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		398	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	9

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634615003

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		20.6	0.725	2.00	mg/L			JW2	08/29/23	1200	2484392	10
Bicarbonate alkalinity (CaCO ₃)		20.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-38S Project: GPCC00101
Sample ID: 634615004 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:12
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.44	0.0670	0.200	mg/L		1	HXC1	08/24/23	2017	2482580	1
Fluoride		0.748	0.0330	0.100	mg/L		1					
Nitrate-N		0.123	0.0330	0.100	mg/L		1					
Sulfate		274	5.32	16.0	mg/L		40	HXC1	08/25/23	0837	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0932	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2138	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0134	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000410	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00338	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.139	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0343	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		30.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.28	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0186	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00680	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0002	2482705	5
Calcium		28.7	0.0800	0.200	mg/L	1.00	1					
Lithium		0.0195	0.00300	0.0100	mg/L	1.00	1					
Sodium		36.3	0.0800	0.250	mg/L	1.00	1					
Boron		1.37	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1017	2482705	6
Manganese		1.43	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		459	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634615004

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1202	2484392	9
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-PZ-52D Project: GPCC00101
Sample ID: 634615005 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 13:46
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.90	0.0670	0.200	mg/L		1	HXC1	08/24/23	2047	2482580	1
Fluoride		1.94	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		112	1.33	4.00	mg/L		10	HXC1	08/25/23	0908	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0934	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0006	2482705	4
Boron		0.0668	0.00520	0.0150	mg/L	1.00	1					
Calcium		46.7	0.0800	0.200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Sodium		68.2	0.800	2.50	mg/L	1.00	10	PRB	09/07/23	1019	2482705	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2141	2482705	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000307	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0556	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00623	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0154	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.47	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		372	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-PZ-52D Project: GPCC00101
Sample ID: 634615005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		180	0.725	2.00	mg/L			JW2	08/29/23	1204	2484392	9
Bicarbonate alkalinity (CaCO ₃)		180	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-PZ-70I Project: GPCC00101
Sample ID: 634615006 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:12
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		139	1.33	4.00	mg/L		10	HXC1	08/25/23	0939	2482580	1
Chloride		5.75	0.0670	0.200	mg/L		1	HXC1	08/24/23	2118	2482580	2
Nitrate-N		0.175	0.0330	0.100	mg/L		1					
Fluoride		0.229	0.0660	0.200	mg/L		2	HXC1	08/25/23	1010	2482580	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00322	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0939	2482668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	J	0.000325	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0010	2482705	5
Calcium		31.4	0.0800	0.200	mg/L	1.00	1					
Lithium	J	0.00385	0.00300	0.0100	mg/L	1.00	1					
Sodium		19.5	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2145	2482705	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0196	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000784	0.000300	0.00100	mg/L	1.00	1					
Iron		0.105	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		11.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.291	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.91	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00829	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.01	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1021	2482705	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		252	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	9

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I	Project: GPCC00101
Sample ID: 634615006	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.5	0.725	2.00	mg/L			JW2	08/29/23	1207	2484392	10
Bicarbonate alkalinity (CaCO3)		14.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 634615007 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.34	0.0670	0.200	mg/L		1	HXC1	08/24/23	2149	2482580	1
Fluoride		0.341	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		273	3.33	10.0	mg/L		25	HXC1	08/25/23	1041	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0940	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2148	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0269	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00564	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0804	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		31.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00976	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.84	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.22	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1023	2482705	5
Calcium		66.3	1.60	4.00	mg/L	1.00	20					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0013	2482705	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		18.3	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		505	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	8

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 634615007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		53.0	0.725	2.00	mg/L			JW2	08/29/23	1209	2484392	9
Bicarbonate alkalinity (CaCO ₃)		53.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 634615008 Client ID: GPCC001
Matrix: WQ
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/24/23	2220	2482580	1
Fluoride		0.340	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0942	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2152	2482705	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000714	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	J	0.0147	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0017	2482705	4
Boron		0.0205	0.00520	0.0150	mg/L	1.00	1					
Calcium	J	0.0850	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		0.282	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 634615008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1211	2484392	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-EB-09	Project: GPCC00101
Sample ID: 634615009	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 16:45	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/24/23	2251	2482580	1
Fluoride	J	0.0531	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0944	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0028	2482705	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2203	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1053	2482961	6

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 634615009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1213	2484392	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 634615010 Client ID: GPCC001
Matrix: WQ
Collect Date: 23-AUG-23 13:15
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.581	0.0670	0.200	mg/L		1	HXC1	08/24/23	2322	2482580	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N		0.470	0.0330	0.100	mg/L		1					
Sulfate	J	0.329	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0945	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0031	2482705	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium		0.361	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		0.289	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2207	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	J	0.0142	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	J	0.110	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1054	2482961	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 634615010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1214	2484392	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S	Project: GPCC00101
Sample ID: 634441001	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 12:10	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		32.7	3.35	10.0	mg/L		50	JLD1	08/24/23	0117	2481584	1
Sulfate		466	6.65	20.0	mg/L		50					
Fluoride		0.123	0.0330	0.100	mg/L		1	JLD1	08/23/23	1647	2481584	2
Nitrate-N	J	0.0707	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1159	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2225	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0357	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00190	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000533	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0659	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0388	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00967	0.00300	0.0100	mg/L	1.00	1					
Magnesium		19.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00572	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.946	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0854	2482703	5
Calcium		135	0.800	2.00	mg/L	1.00	10					
Manganese		3.14	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		778	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1736	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634441001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	1.40	0.725	2.00	mg/L			JW2	08/24/23	1558	2482476	8
Bicarbonate alkalinity (CaCO ₃)	J	1.40	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FD-04	Project: GPCC00101
Sample ID: 634441002	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 12:00	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.119	0.0330	0.100	mg/L		1	JLD1	08/23/23	1719	2481584	1
Nitrate-N	J	0.0630	0.0330	0.100	mg/L		1					
Chloride		33.4	3.35	10.0	mg/L		50	JLD1	08/24/23	0253	2481584	2
Sulfate		472	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1201	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2228	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0379	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00199	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000586	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0696	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0416	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0100	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		15.3	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00628	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.988	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0856	2482703	5
Calcium		143	0.800	2.00	mg/L	1.00	10					
Manganese		3.29	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		766	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1738	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 634441002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	1.20	0.725	2.00	mg/L			JW2	08/24/23	1601	2482476	8
Bicarbonate alkalinity (CaCO ₃)	J	1.20	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S Project: GPCC00101
Sample ID: 634441003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 14:35
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		299	3.33	10.0	mg/L		25	JLD1	08/24/23	0357	2481584	1
Chloride		13.2	0.134	0.400	mg/L		2	JLD1	08/24/23	0325	2481584	2
Fluoride	J	0.0816	0.0660	0.200	mg/L		2					
Nitrate-N	J	0.0431	0.0330	0.100	mg/L		1	JLD1	08/23/23	1751	2481584	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1203	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2232	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0268	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00384	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.90	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0858	2482703	6
Calcium		83.4	1.60	4.00	mg/L	1.00	20					
Manganese		3.33	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		495	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1739	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-34S Project: GPCC00101
Sample ID: 634441003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		28.9	0.725	2.00	mg/L			JW2	08/24/23	1603	2482476	9
Bicarbonate alkalinity (CaCO ₃)		28.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FB-07	Project: GPCC00101
Sample ID: 634441004	Client ID: GPCC001
Matrix: WQ	
Collect Date: 22-AUG-23 15:10	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.206	0.0670	0.200	mg/L		1	JLD1	08/23/23	1823	2481584	1
Fluoride	J	0.0478	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0430	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1204	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2257	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00844	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0910	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1740	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 634441004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1605	2482476	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-37S	Project: GPCC00101
Sample ID: 634441005	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 16:51	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.89	0.0670	0.200	mg/L		1	JLD1	08/23/23	1855	2481584	1
Fluoride	J	0.0445	0.0330	0.100	mg/L		1					
Nitrate-N		0.294	0.0330	0.100	mg/L		1					
Sulfate	J	0.355	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1206	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2301	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0266	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00802	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.47	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.16	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.23	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0912	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		42.0	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1740	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-BRGWC-37S	Project: GPCC00101
Sample ID: 634441005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.9	0.725	2.00	mg/L			JW2	08/24/23	1607	2482476	7
Bicarbonate alkalinity (CaCO3)		21.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-PZ-13S Project: GPCC00101
Sample ID: 634441006 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 16:47
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		46.2	0.665	2.00	mg/L		5	JLD1	08/24/23	1046	2481584	1
Chloride		2.73	0.0670	0.200	mg/L		1	JLD1	08/23/23	1927	2481584	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0695	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1208	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00237	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0914	2482703	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2304	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0683	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000259	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00855	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.74	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0111	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.04	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.58	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		112	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APE

Client Sample ID: BRA-PZ-13S Project: GPCC00101
Sample ID: 634441006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		21.0	0.725	2.00	mg/L			JW2	08/24/23	1609	2482476	8
Bicarbonate alkalinity (CaCO ₃)		21.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 7, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634615

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482580										
QC1205499015	634615001	DUP									
Chloride		5.18		5.20	mg/L	0.566		(0%-20%)	HXC1	08/25/23	03:29
Fluoride		0.484		0.453	mg/L	6.49	^	(+/-0.100)			
Nitrate-N	J	0.0940	J	0.0939	mg/L	0.106	^	(+/-0.100)			
Sulfate		180		180	mg/L	0.133		(0%-20%)		08/25/23	05:01
QC1205499014	LCS										
Chloride	5.00			4.79	mg/L			95.8 (90%-110%)		08/25/23	01:56
Fluoride	2.50			2.47	mg/L			98.9 (90%-110%)			
Nitrate-N	2.50			2.37	mg/L			94.9 (90%-110%)			
Sulfate	10.0			9.81	mg/L			98.1 (90%-110%)			
QC1205499013	MB										
Chloride			U	ND	mg/L					08/25/23	01:25
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499016	634615001	PS									
Chloride	5.00	5.18		10.7	mg/L			111* (90%-110%)		08/25/23	03:59

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482580										
Fluoride	2.50	0.484		2.91	mg/L		97	(90%-110%)	HXC1	08/25/23	03:59
Nitrate-N	2.50	J 0.0940		2.43	mg/L		93.5	(90%-110%)			
Sulfate	10.0	9.00		19.6	mg/L		106	(90%-110%)		08/25/23	05:32
Metals Analysis - ICPMS											
Batch	2482705										
QC1205499170	LCS										
Antimony	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	09/06/23	21:01
Arsenic	0.0500			0.0502	mg/L		100	(80%-120%)			
Barium	0.0500			0.0473	mg/L		94.6	(80%-120%)			
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)			
Boron	0.100			0.111	mg/L		111	(80%-120%)			
Cadmium	0.0500			0.0509	mg/L		102	(80%-120%)			
Calcium	2.00			2.11	mg/L		105	(80%-120%)		09/07/23	09:49
Chromium	0.0500			0.0514	mg/L		103	(80%-120%)		09/06/23	21:01
Cobalt	0.0500			0.0511	mg/L		102	(80%-120%)			
Iron	2.00			2.05	mg/L		102	(80%-120%)			
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Lithium	0.0500			0.0576	mg/L		115	(80%-120%)	PRB	09/06/23	21:01
Magnesium	2.00			2.09	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Molybdenum	0.0500			0.0517	mg/L		103	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0478	mg/L		95.7	(80%-120%)			
Sodium	2.00			2.16	mg/L		108	(80%-120%)		09/07/23	09:49
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/06/23	21:01
QC1205499169	MB										
Antimony			U	ND	mg/L					09/06/23	20:58
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L					09/07/23	09:47

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Chromium			U	ND	mg/L				PRB	09/06/23	20:58
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L					09/07/23	09:47
Thallium			U	ND	mg/L					09/06/23	20:58
QC1205499171 634615001 MS											
Antimony	0.0500	U	ND	0.0514	mg/L		103	(75%-125%)		09/06/23	21:09
Arsenic	0.0500	U	ND	0.0505	mg/L		98.8	(75%-125%)			
Barium	0.0500		0.0445	0.0929	mg/L		96.9	(75%-125%)			

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QC Summary

Workorder: 634615

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2482705											
Beryllium	0.0500	U	ND		0.0595	mg/L		119	(75%-125%)	PRB	09/06/23	21:09
Boron	0.100		0.0601		0.170	mg/L		110	(75%-125%)			
Cadmium	0.0500	U	ND		0.0509	mg/L		102	(75%-125%)			
Calcium	2.00		47.9		49.7	mg/L		N/A	(75%-125%)		09/07/23	10:00
Chromium	0.0500		0.0115		0.0621	mg/L		101	(75%-125%)		09/06/23	21:09
Cobalt	0.0500	U	ND		0.0495	mg/L		99	(75%-125%)			
Iron	2.00	J	0.0446		2.04	mg/L		99.9	(75%-125%)			
Lead	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND		0.0584	mg/L		114	(75%-125%)			
Magnesium	2.00		24.7		27.2	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U	ND		0.0498	mg/L		99	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0537	mg/L		107	(75%-125%)			
Potassium	2.00		1.19		3.21	mg/L		101	(75%-125%)			
Selenium	0.0500	J	0.00214		0.0529	mg/L		102	(75%-125%)			
Sodium	2.00		24.3		26.5	mg/L		N/A	(75%-125%)		09/07/23	10:00

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Thallium	0.0500	U	ND	0.0486	mg/L		97.1	(75%-125%)	PRB	09/06/23	21:09
QC1205499172 634615001 MSD											
Antimony	0.0500	U	ND	0.0505	mg/L	1.68	101	(0%-20%)		09/06/23	21:12
Arsenic	0.0500	U	ND	0.0503	mg/L	0.359	98.4	(0%-20%)			
Barium	0.0500		0.0445	0.0900	mg/L	3.18	91.1	(0%-20%)			
Beryllium	0.0500	U	ND	0.0597	mg/L	0.435	119	(0%-20%)			
Boron	0.100		0.0601	0.169	mg/L	0.597	109	(0%-20%)			
Cadmium	0.0500	U	ND	0.0501	mg/L	1.62	100	(0%-20%)			
Calcium	2.00		47.9	47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23	10:02
Chromium	0.0500		0.0115	0.0609	mg/L	1.91	98.8	(0%-20%)		09/06/23	21:12
Cobalt	0.0500	U	ND	0.0488	mg/L	1.57	97.5	(0%-20%)			
Iron	2.00	J	0.0446	2.02	mg/L	0.88	99	(0%-20%)			
Lead	0.0500	U	ND	0.0491	mg/L	3.4	98.3	(0%-20%)			
Lithium	0.0500	U	ND	0.0572	mg/L	2.02	112	(0%-20%)			
Magnesium	2.00		24.7	26.1	mg/L	4.35	N/A	(0%-20%)			
Manganese	0.0500	U	ND	0.0491	mg/L	1.28	97.7	(0%-20%)			

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Molybdenum	0.0500	U	ND	0.0522	mg/L	2.82	104	(0%-20%)	PRB	09/06/23	21:12
Potassium	2.00		1.19	3.12	mg/L	2.62	96.9	(0%-20%)			
Selenium	0.0500	J	0.00214	0.0511	mg/L	3.51	97.9	(0%-20%)			
Sodium	2.00		24.3	25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23	10:02
Thallium	0.0500	U	ND	0.0480	mg/L	1.1	96	(0%-20%)		09/06/23	21:12
QC1205499173 634615001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	21:20
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			44.5	9.45	ug/L	6.18		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			60.1	J	12.2	ug/L	1.49	(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Calcium			9580		1920	ug/L	.186	(0%-20%)		09/07/23	10:07
Chromium			11.5	U	ND	ug/L	N/A	(0%-20%)		09/06/23	21:20
Cobalt		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Iron		J	44.6	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

Workorder: 634615

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/06/23	21:20
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		24700		5300	ug/L	7.32		(0%-20%)			
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		1190	J	231	ug/L	2.54		(0%-20%)			
Selenium	J	2.14	U	ND	ug/L	N/A		(0%-20%)			
Sodium		4860		988	ug/L	1.66		(0%-20%)		09/07/23	10:07
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23	21:20
Metals Analysis-Mercury											
Batch	2482668										
QC1205499097	634513006 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/28/23	09:09
QC1205499096	LCS										
Mercury		0.00200		0.00205	mg/L		103	(80%-120%)		08/28/23	09:01
QC1205499095	MB										
Mercury			U	ND	mg/L					08/28/23	08:59
QC1205499098	634513006 MS										
Mercury		0.00200	U	ND	0.00197	mg/L	98.5	(75%-125%)		08/28/23	09:11

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482668										
QC1205499099	634513006	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/28/23	09:12
Solids Analysis											
Batch	2483702										
QC1205501048	634610003	DUP									
Total Dissolved Solids		5050		5870	mg/L	15*		(0%-5%)	CH6	08/28/23	15:50
QC1205501047	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23	15:50
QC1205501046	MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23	15:50
Batch	2484233										
QC1205502071	634810010	DUP									
Total Dissolved Solids		184		187	mg/L	1.62		(0%-5%)	CH6	08/29/23	15:39
QC1205502070	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	15:39
QC1205502069	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	15:39
Batch	2484234										
QC1205502076	634643001	DUP									
Total Dissolved Solids		1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2482961										
QC1205499656		LCS									
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42
QC1205499655		MB									
Total Sulfide			U	ND	mg/L					08/25/23	10:42
QC1205499657		634513005	PS								
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48
QC1205499658		634513005	PSD								
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23	10:48
Batch	2483779										
QC1205501209		LCS									
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208		MB									
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210		634615002	PS								
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212		634650011	PS								
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211		634615002	PSD								
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213		634650011	PSD								
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)		65.8		65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3		80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)		80.2		80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205502339	LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344	LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341	634448001	MS									
Alkalinity, Total as CaCO3	50.0	65.8		118	mg/L		104	(80%-120%)		08/29/23	11:54
QC1205502343	634643001	MS									
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)		08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<											
>											
h											
R											
Z											
d											
^											
N/A											
ND											
E											
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 6, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634441

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
QC1205497354	634441001	DUP									
Chloride		32.7		32.5	mg/L	0.522	^	(+/-10.0)	JLD1	08/24/23	01:49
Fluoride		0.123		0.124	mg/L	1.13	^	(+/-0.100)		08/24/23	00:14
Nitrate-N	J	0.0707	J	0.0739	mg/L	4.43	^	(+/-0.100)			
Sulfate		466		474	mg/L	1.69		(0%-20%)		08/24/23	01:49
QC1205497353	LCS										
Chloride	5.00			4.64	mg/L			92.8 (90%-110%)		08/23/23	23:42
Fluoride	2.50			2.37	mg/L			94.6 (90%-110%)			
Nitrate-N	2.50			2.27	mg/L			91 (90%-110%)			
Sulfate	10.0			9.48	mg/L			94.8 (90%-110%)			
QC1205497352	MB										
Chloride			U	ND	mg/L					08/23/23	23:10
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497355	634441001	PS									
Chloride	5.00	0.654		5.10	mg/L			88.9* (90%-110%)		08/24/23	02:21

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
Fluoride	2.50	0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23	00:45
Nitrate-N	2.50	J 0.0707		2.29	mg/L		88.7*	(90%-110%)			
Sulfate	10.0	9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23	02:21
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165	LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23	22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium			U	ND	mg/L				PRB	08/31/23	22:18
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			

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QC Summary

Workorder: 634441

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23	22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23	22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)	PRB	08/31/23	22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)			
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Calcium			4170	869	ug/L	4.2		(0%-20%)		09/01/23	09:04
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Cobalt			3.84	J	0.796	ug/L	3.56	(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23	22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24
QC1205499045	LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499048	634447002	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23	12:27
Solids Analysis											
Batch	2482652										
QC1205499070	634323005	DUP									
Total Dissolved Solids		219		217	mg/L	0.917		(0%-5%)	CH6	08/25/23	09:38
QC1205499068	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/25/23	09:38
QC1205499067	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	09:38
Batch	2482655										
QC1205499078	634530001	DUP									
Total Dissolved Solids		360		364	mg/L	1.1		(0%-5%)	CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2482476										
QC1205498938	LCS										
Alkalinity, Total as CaCO3	50.0			50.2	mg/L		100	(90%-110%)	JW2	08/24/23	15:56
QC1205499028	LCSD										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L	0.991	101	(0%-20%)		08/24/23	15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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QC Summary

Workorder: 634441

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634615**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482705

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482704

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499169	Method Blank (MB) ICP-MS
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634615001 (BRA-BRGWC-17S),

634615002 (BRA-BRGWC-35S), 634615003 (BRA-BRGWC-36S), 634615004 (BRA-BRGWC-38S), 634615005 (BRA-PZ-52D), 634615006 (BRA-PZ-70I) and 634615007 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634615						
	001	002	003	004	005	006	007
Boron	1X	20X	10X	10X	1X	10X	20X
Calcium	5X	20X	1X	1X	1X	1X	20X
Manganese	1X	1X	1X	10X	1X	1X	1X
Sodium	5X	1X	1X	1X	10X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482668

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482660

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499095	Method Blank (MB)CVAA
1205499096	Laboratory Control Sample (LCS)
1205499099	634513006(NonSDGL) Serial Dilution (SD)
1205499097	634513006(NonSDGD) Sample Duplicate (DUP)
1205499098	634513006(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482580

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499013	Method Blank (MB)
1205499014	Laboratory Control Sample (LCS)
1205499015	634615001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205499016	634615001(BRA-BRGWC-17S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205499016 (BRA-BRGWC-17SPS)	111* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205499015 (BRA-BRGWC-17SDUP), 1205499016 (BRA-BRGWC-17SPS), 634615001 (BRA-BRGWC-17S), 634615002 (BRA-BRGWC-35S), 634615003 (BRA-BRGWC-36S), 634615004 (BRA-BRGWC-38S), 634615005 (BRA-PZ-52D), 634615006 (BRA-PZ-70I) and 634615007 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. The following samples 634615003 (BRA-BRGWC-36S) and 634615006 (BRA-PZ-70I) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634615						
	001	002	003	004	005	006	007
Fluoride	1X	1X	2X	1X	1X	2X	1X
Sulfate	20X	40X	20X	40X	10X	10X	25X

Miscellaneous Information

Manual Integrations

Samples 1205499015 (BRA-BRGWC-17SDUP), 634615003 (BRA-BRGWC-36S) and 634615006 (BRA-PZ-70I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2483702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
1205501046	Method Blank (MB)
1205501047	Laboratory Control Sample (LCS)
1205501048	634610003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205501048 (Non SDG 634610003DUP)	15* (0%-5%)

Miscellaneous Information

Additional Comments

A TDS meter was used to check the sample for interference prior to analysis. 1205501048 (Non SDG 634610003DUP).

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484233

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
1205502069	Method Blank (MB)
1205502070	Laboratory Control Sample (LCS)
1205502071	634810010(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the sample for interference prior to analysis. 1205502076 (BRA-PZ-79DUP).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 634441**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04) and 634441003 (BRA-BRGWC-34S) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634441		
	001	002	003
Boron	10X	10X	20X
Calcium	10X	10X	20X
Manganese	10X	10X	20X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205499044	Method Blank (MB) CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481584

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04), 634441003 (BRA-BRGWC-34S) and 634441006 (BRA-PZ-13S) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634441003 (BRA-BRGWC-34S) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634441			
	001	002	003	006
Chloride	50X	50X	2X	1X
Fluoride	1X	1X	2X	1X
Sulfate	50X	50X	25X	5X

Miscellaneous Information

Manual Integrations

Samples 634441002 (BRA-APE-FD-04), 634441005 (BRA-BRGWC-37S) and 634441006 (BRA-PZ-13S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482652

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
1205499067	Method Blank (MB)
1205499068	Laboratory Control Sample (LCS)
1205499070	634323005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441006	BRA-PZ-13S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499078	634530001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration,

continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2482476

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04), 634441003 (BRA-BRGWC-34S), 634441004 (BRA-APE-FB-07), 634441005 (BRA-BRGWC-37S) and 634441006 (BRA-PZ-13S).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634648

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Laboratories LLC
Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - E
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goale
D. Johnson

GEL Work Order Number: _____
Phone # 404-506-7116
Fax # _____
Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments	
						Yes please supply isotopic info.	Known or possible Hazards	Total number of containers	CI, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Benth Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500
BRA- BDCGWC-175	08/23/23	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BDCGWC-355	08/23/23	1201	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BDCGWC-365	08/23/23	1556	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BDCGWC-385	08/23/23	1212	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- PZ-70I	08/23/23	1612	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-05	08/23/23	-	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-06	08/23/23	1630	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	08/23/23	1645	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-ED-10	08/23/23	1315	G	N	WG	N	N	8	✓	✓	✓	✓	✓	

Relinquished By (Signed) _____ Date _____ Time _____
Received by (signed) _____ Date _____ Time _____
1. Total GEL 8-24-23/0740
2. Total GEL 8/24/23 1243
3. Total GEL 8/24/23 1243

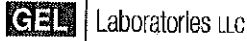
Chain of Custody Signatures
TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: Yes No
Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EF = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NT = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	Listed Waste LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s):	Other OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
--	---	--	--

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634443
 634652 634650
 634649
 64 634648 634615



SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:	
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <u>cooler 1-3°</u> <u>cooler 3-3°</u> <u>cooler 2-3°</u> <u>cooler 4-2°</u> <u>cooler 5-3°</u>	
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	COC notation on radioactive coolers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM</u> mR/hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	COC notation on hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Plammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA
Comments/Qualifiers (Required for Non-Conforming Items)		No	
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u>see continuation form</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encorus or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>cooler 6-1</u> <u>cooler 7-2</u> <u>cooler 8-4</u> <u>cooler 9-1</u>			

TEMP: See coolers above & below for temps

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2



Client: GPCC Received By: EC Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

- BRA-P2-S11
- BRA-P2-591
- BRA-BRGWC-355
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-385
- BRA-P2-641
- BRA-P2-68D
- BRA-APBCD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

634441 634443

Page: 1 of 1
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: _____
GEL Project Manager: Erin Trent
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - E
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: T. Cobble / D. J. ACC
 Send Results To: SCS & Geosyntec Contacts

Phone # 404-506-7116
 Fax # _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
						Radioactive (if yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Metals *	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	
BRA-GWC-335	08/22/23	1210	G	N	WG	N	N	8	✓	✓		
BRA-APE-FD-04	08/22/23	—	G	N	WG	N	N	8	✓	✓		
BRA-GWC-345	08/22/23	1435	G	N	WG	N	N	8	✓	✓		
BRA-APE-FB-07	08/22/23	1510	G	N	WB	N	N	8	✓	✓		
BRA-BRGWC-375	08/22/23	1651	G	N	WG	N	N	8	✓	✓		
BRA-PZ-135	08/22/23	1647	G	N	WG	N	N	8	✓	✓		
BRA-												
BRA-												
BRA-												
BRA-												

Chain of Custody Signatures				TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: _____ Specify: _____ (Subject to Surcharge)	
Relinquished By (Signed)	Date	Received by (signed)	Date	Time	Fax Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>[Signature]</i>	8-23-23 10:25	<i>[Signature]</i>	8/23/23	0825	Select Deliverable: <input type="checkbox"/> C of A <input type="checkbox"/> QC Summary <input type="checkbox"/> Level 1 <input checked="" type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4
<i>[Signature]</i>	8/23/23 0832	<i>[Signature]</i>	8/23/23	0832	Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Ti,Fe,Mg,Mn,K,Na,Hg
<i>[Signature]</i>	8/23/23 100	<i>[Signature]</i>	8/23/23	1300	For Lab Receiving Use Only: Custody Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temp: _____ °C
* For sample shipping and delivery details, see Sample Receipt & Review form (SRR)					
Sample Collection Time Zone: <input checked="" type="checkbox"/> Eastern <input type="checkbox"/> Pacific <input type="checkbox"/> Central <input type="checkbox"/> Mountain <input type="checkbox"/> Other:					

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

63444 63443
 63448 63447
 63443 634450
 63444 63444
 63444

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: EXPP		SDG/AR/COC/Work Order: ET			
Received By: MVH		Date Received: 8/23/2023			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other COOLER 2-3^c COOLER 4-1^c COOLER 6-1^c COOLER 1-2^c COOLER 3-1^c COOLER 5-2^c			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/> Yes			
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> Yes			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 00 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> Yes			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample IDs and Containers Affected: VOA-P2-G11, BRA-BRGWA-SI, BRA-BRGWA-23S, If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): BRA-P2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-2I, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didnt hold proper preservation.					

PM (or PMA) review: Initials **AT** Date **8/25/23** Page **1** of **1**

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 07, 2023

Joju Abraham
 Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance PZ
 Work Order: 634649

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634649001	BRA-PZ-76I	Ground Water	23/08/23 10:37	24/08/23 12:43
634649002	BRA-PZ-77I	Ground Water	23/08/23 10:26	24/08/23 12:43

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023

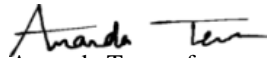
Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SW846 3005A/6020B	06-SEP-2023



Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634649 GEL Work Order: 634649

The Qualifiers in this report are defined as follows:

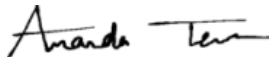
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-76I	Project: GPCC00101
Sample ID: 634649001	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 10:37	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.28	0.0670	0.200	mg/L		1	LXA2	08/24/23	1728	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		158	2.66	8.00	mg/L		20	LXA2	08/25/23	1640	2482641	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0505	0.0193	0.0500	mg/L	1.00	1	PRB	09/06/23	2214	2482705	3
Cobalt		0.00587	0.000300	0.00100	mg/L	1.00	1					
Iron		0.194	0.0330	0.100	mg/L	1.00	1					
Magnesium		5.68	0.0100	0.0300	mg/L	1.00	1					
Potassium		6.83	0.0800	0.300	mg/L	1.00	1					
Boron		2.10	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1027	2482705	4
Calcium		141	1.60	4.00	mg/L	1.00	20					
Manganese		4.65	0.0200	0.100	mg/L	1.00	20					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0039	2482705	5
Sodium		19.7	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		304	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1055	2482961	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.1	0.725	2.00	mg/L			JW2	08/29/23	1219	2484392	8
Bicarbonate alkalinity (CaCO3)		23.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-76I
Sample ID: 634649001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description	Analyst Comments									
1	EPA 300.0										
2	EPA 300.0										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SW846 3005A/6020B										
6	SM 2540C										
7	SM 4500-S (2-) D										
8	SM 2320B										

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-771 Project: GPCC00101
Sample ID: 634649002 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 10:26
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		12.1	1.34	4.00	mg/L		20	LXA2	08/25/23	1711	2482641	1
Sulfate		269	2.66	8.00	mg/L		20					
Nitrate-N		0.151	0.0330	0.100	mg/L		1	LXA2	08/24/23	1759	2482641	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	J	0.000318	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0042	2482705	3
Sodium		27.9	0.0800	0.250	mg/L	1.00	1					
Aluminum		0.122	0.0193	0.0500	mg/L	1.00	1	PRB	09/06/23	2217	2482705	4
Cobalt		0.0332	0.000300	0.00100	mg/L	1.00	1					
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Potassium		13.6	0.0800	0.300	mg/L	1.00	1					
Boron		0.936	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1029	2482705	5
Calcium		86.8	1.60	4.00	mg/L	1.00	20					
Manganese		3.51	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		466	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.9	0.725	2.00	mg/L			JW2	08/29/23	1221	2484392	8
Bicarbonate alkalinity (CaCO3)		21.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-77I
Sample ID: 634649002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		
3	SW846 3005A/6020B		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		
7	SM 4500-S (2-) D		
8	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 7, 2023

Page 1 of 7

Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634649

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
QC1205499056	634643001	DUP									
Chloride		2.56		2.56	mg/L	0.235		(0%-20%)	LXA2	08/24/23	23:40
Nitrate-N	J	0.0737	J	0.0724	mg/L	1.78	^	(+/-0.100)			
Sulfate		761		761	mg/L	0.0329		(0%-20%)		08/25/23	15:38
QC1205499055	LCS										
Chloride	5.00			4.61	mg/L			92.3 (90%-110%)		08/24/23	22:06
Nitrate-N	2.50			2.31	mg/L			92.4 (90%-110%)			
Sulfate	10.0			9.50	mg/L			95 (90%-110%)			
QC1205499054	MB										
Chloride			U	ND	mg/L					08/24/23	23:09
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499057	634643001	PS									
Chloride	5.00	2.56		7.48	mg/L			98.4 (90%-110%)		08/25/23	00:11
Nitrate-N	2.50	J 0.0737		2.40	mg/L			92.9 (90%-110%)			
Sulfate	10.0	7.61		17.7	mg/L			101 (90%-110%)		08/25/23	16:09

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QC Summary

Workorder: 634649

Page 2 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
QC1205499170	LCS										
Aluminum	2.00			2.04	mg/L		102	(80%-120%)	PRB	09/06/23	21:01
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)			
Boron	0.100			0.111	mg/L		111	(80%-120%)			
Calcium	2.00			2.11	mg/L		105	(80%-120%)		09/07/23	09:49
Cobalt	0.0500			0.0511	mg/L		102	(80%-120%)		09/06/23	21:01
Iron	2.00			2.05	mg/L		102	(80%-120%)			
Magnesium	2.00			2.09	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Sodium	2.00			2.16	mg/L		108	(80%-120%)		09/07/23	09:49
QC1205499169	MB										
Aluminum			U	ND	mg/L					09/06/23	20:58
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Calcium			U	ND	mg/L					09/07/23	09:47
Cobalt			U	ND	mg/L					09/06/23	20:58

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QC Summary

Workorder: 634649

Page 3 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Iron			U	ND	mg/L				PRB	09/06/23	20:58
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Sodium			U	ND	mg/L					09/07/23	09:47
QC1205499171 634615001 MS											
Aluminum	2.00	U	ND	2.06	mg/L		102	(75%-125%)		09/06/23	21:09
Beryllium	0.0500	U	ND	0.0595	mg/L		119	(75%-125%)			
Boron	0.100		0.0601	0.170	mg/L		110	(75%-125%)			
Calcium	2.00		47.9	49.7	mg/L		N/A	(75%-125%)		09/07/23	10:00
Cobalt	0.0500	U	ND	0.0495	mg/L		99	(75%-125%)		09/06/23	21:09
Iron	2.00	J	0.0446	2.04	mg/L		99.9	(75%-125%)			
Magnesium	2.00		24.7	27.2	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U	ND	0.0498	mg/L		99	(75%-125%)			
Potassium	2.00		1.19	3.21	mg/L		101	(75%-125%)			
Sodium	2.00		24.3	26.5	mg/L		N/A	(75%-125%)		09/07/23	10:00

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QC Summary

Workorder: 634649

Page 4 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
QC1205499172	634615001	MSD									
Aluminum	2.00	U	ND	2.00	mg/L	3.03	99.4	(0%-20%)	PRB	09/06/23	21:12
Beryllium	0.0500	U	ND	0.0597	mg/L	0.435	119	(0%-20%)			
Boron	0.100		0.0601	0.169	mg/L	0.597	109	(0%-20%)			
Calcium	2.00		47.9	47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23	10:02
Cobalt	0.0500	U	ND	0.0488	mg/L	1.57	97.5	(0%-20%)		09/06/23	21:12
Iron	2.00	J	0.0446	2.02	mg/L	0.88	99	(0%-20%)			
Magnesium	2.00		24.7	26.1	mg/L	4.35	N/A	(0%-20%)			
Manganese	0.0500	U	ND	0.0491	mg/L	1.28	97.7	(0%-20%)			
Potassium	2.00		1.19	3.12	mg/L	2.62	96.9	(0%-20%)			
Sodium	2.00		24.3	25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23	10:02
QC1205499173	634615001	SDILT									
Aluminum		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	21:20
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			60.1	J	12.2	ug/L	1.49	(0%-20%)			
Calcium			9580		1920	ug/L	.186	(0%-20%)		09/07/23	10:07
Cobalt		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	21:20

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634649

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482705										
Iron	J	44.6	U	ND	ug/L	N/A		(0%-20%)	PRB	09/06/23	21:20
Magnesium		24700		5300	ug/L	7.32		(0%-20%)			
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		1190	J	231	ug/L	2.54		(0%-20%)			
Sodium		4860		988	ug/L	1.66		(0%-20%)		09/07/23	10:07
Solids Analysis											
Batch	2484234										
QC1205502076	634643001 DUP										
Total Dissolved Solids		1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03
Spectrometric Analysis											
Batch	2482961										
QC1205499656	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42
QC1205499655	MB										
Total Sulfide			U	ND	mg/L					08/25/23	10:42
QC1205499657	634513005 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634649

Page 6 of 7

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2482961										
QC1205499658	634513005	PSD									
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)	JW2	08/25/23	10:48
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3			65.8	65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)			65.8	65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3			80.2	80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)			80.2	80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339	LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344	LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341	634448001	MS									
Alkalinity, Total as CaCO3	50.0		65.8	118	mg/L		104	(80%-120%)		08/29/23	11:54
QC1205502343	634643001	MS									
Alkalinity, Total as CaCO3	50.0		80.2	132	mg/L		103	(80%-120%)		08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634649

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time	
U												Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J												Value is estimated
X												Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N												Metals--The Matrix spike sample recovery is not within specified control limits
H												Analytical holding time was exceeded
<												Result is less than value reported
>												Result is greater than value reported
h												Preparation or preservation holding time was exceeded
R												Sample results are rejected
Z												Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d												5-day BOD--The 2:1 depletion requirement was not met for this sample
^												RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A												RPD or %Recovery limits do not apply.
ND												Analyte concentration is not detected above the detection limit
E												%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ												Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E												General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q												One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB												Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
NI												See case narrative
Y												Other specific qualifiers were required to properly define the results. Consult case narrative.
R												Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B												The target analyte was detected in the associated blank.
e												5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J												See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634649**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482705

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482704

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499169	Method Blank (MB)ICP-MS
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634649001 (BRA-PZ-76I) and 634649002 (BRA-PZ-77I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634649	
	001	002
Boron	20X	20X
Calcium	20X	20X

Manganese	20X	20X
-----------	-----	-----

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634649001 (BRA-PZ-76I) and 634649002 (BRA-PZ-77I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634649	
	001	002
Chloride	1X	20X
Sulfate	20X	20X

Miscellaneous Information

Manual Integrations

Sample 634649001 (BRA-PZ-76I) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the sample for interference prior to analysis. 1205502076 (BRA-PZ-79DUP).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634649001	BRA-PZ-761
634649002	BRA-PZ-771
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: T. Goble ACC
 D. Johnson

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 GEL Project Manager: Erin Trent
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Preservative Type (6)	Comments
						Yes, please supply isotopic info)	(7) Known or possible Hazards		CI, SO4, TDS, NO3	Total, Carb. & Bicarb Alk	Metals *	Sulfide		
BRA-PZ-761	08/23/23	1037	G	N	WG	N	N	5	✓	✓	✓	✓	✓	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-OTH-20230823
BRA-PZ-771	08/23/23	1026	G	N	WG	N	N	5	✓	✓	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	8:40
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	12:43

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Be,Co,Al,Fe,Mg,Mn,K,Na
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, PD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, if no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

TSCA Regulated
PCB = Polychlorinated biphenyls

634448 634443
 634652 634650
 634649
 634648 634615

SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:		
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <u>cooler 1-3</u> <u>cooler 3-3</u> <u>cooler 2-3</u> <u>cooler 4-2</u> <u>cooler 8-3</u>		
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria		Yes	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/		Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/		Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See coolers above & below for temps</u>
4	Daily check performed and passed on IR temperature gun?	/		Temperature Device Serial #: <u>IR9-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	/		Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?	/		If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	/		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/		ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/		
13	COC form is properly signed in relinquished/received sections?	/		Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>cooler 6-1</u> <u>cooler 7-2</u> <u>cooler 8-4</u> <u>cooler 9-1</u>				

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2



Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

- BRA-P2-511
- BRA-P2-591
- BRA-BRGWC-353
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-385
- BRA-P2-641
- BRA-P2-68D
- BRA-APBUD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 08, 2023

Joju Abraham
 Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
 Work Orders: 634650,634444 and 634768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" "BRA-PZ-59I" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. 634650001(BRA-PZ-51I), 634650002(BRA-PZ-58I), 634650003(BRA-PZ-59I), 634650004(BRA-PZ-60I), 634650005(BRA-PZ-63I), 634650006(BRA-PZ-64I), 634650007(BRA-PZ-68D), 634650010(BRA-APBCD-FD-02), 634650011(BRA-BRGWC-50), 634650014(BRA-PZ-50D). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
634444001	BRA-PZ-57I	Ground Water	21/08/23 17:55	23/08/23 13:00
634444002	BRA-PZ-65I	Ground Water	21/08/23 17:45	23/08/23 13:00
634444003	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634444004	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634444005	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634444006	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634444007	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634650001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634650002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634650003	BRA-PZ-59I	Ground Water	23/08/23 11:40	24/08/23 12:43
634650004	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634650005	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634650006	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43



634650007	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634650008	BRA-APBCD-FB-02	Water	23/08/23 14:50	24/08/23 12:43
634650009	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634650010	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634650011	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634650012	BRA-APBCD-EB-04	Water	23/08/23 11:35	24/08/23 12:43
634650013	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634650014	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634768001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634768002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634768003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634768004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634768005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634768006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634768007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634768008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634768009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634768010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634768011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634768012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634768013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

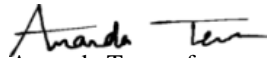
<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 3005A	29-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	28-AUG-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
EPA 300.0	26-AUG-2023
SM 2320B	01-SEP-2023
SM 2320B	24-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	29-AUG-2023
SM 2540C	30-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	08-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	29-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634650 GEL Work Order: 634650

The Qualifiers in this report are defined as follows:

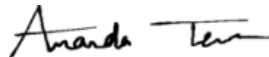
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634768 GEL Work Order: 634768

The Qualifiers in this report are defined as follows:

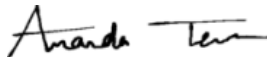
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634444 GEL Work Order: 634444

The Qualifiers in this report are defined as follows:

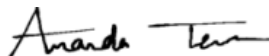
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-511 Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 15:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.43	0.0670	0.200	mg/L		1	LXA2	08/24/23	2002	2482641	1
Fluoride	J	0.0744	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1200	13.3	40.0	mg/L		100	LXA2	08/25/23	1742	2482641	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1108	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1317	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000679	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.136	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0221	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.430	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1131	2482707	5
Calcium		217	0.400	1.00	mg/L	1.00	5					
Magnesium		133	0.0500	0.150	mg/L	1.00	5					
Manganese		49.9	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1147	2482707	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51I Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		23.5	0.725	2.00	mg/L			JW2	09/01/23	1044	2486265	9
Bicarbonate alkalinity (CaCO ₃)		23.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I	Project: GPCC00101
Sample ID: 634650002	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 15:10	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	LXA2	08/24/23	2033	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		11.0	0.335	1.00	mg/L		5	LXA2	08/25/23	1844	2482641	2
Sulfate		949	13.3	40.0	mg/L		100	LXA2	08/25/23	1813	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1113	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1339	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0173	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00453	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000860	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00494	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0250	2482707	6
Lithium		0.0468	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.79	0.0800	0.300	mg/L	1.00	1					
Manganese		31.4	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1209	2482707	7
Beryllium		0.0328	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1206	2482707	8
Boron		0.429	0.0260	0.0750	mg/L	1.00	5					
Calcium		162	0.400	1.00	mg/L	1.00	5					
Cobalt		0.556	0.00150	0.00500	mg/L	1.00	5					
Iron		52.8	0.165	0.500	mg/L	1.00	5					
Magnesium		85.8	0.0500	0.150	mg/L	1.00	5					
Sodium		34.7	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I Project: GPCC00101
Sample ID: 634650002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1046	2486265	11
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I	Project: GPCC00101
Sample ID: 634650003	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 11:40	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I	Project: GPCC00101
Sample ID: 634650004	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 13:25	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	LXA2	08/24/23	2104	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1830	26.6	80.0	mg/L		200	LXA2	08/25/23	1914	2482641	2
Chloride		25.0	0.670	2.00	mg/L		10	LXA2	08/25/23	1945	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1115	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.0670	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1450	2482707	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0253	2482707	6
Iron		1.60	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0936	0.00300	0.0100	mg/L	1.00	1					
Manganese		175	1.00	5.00	mg/L	1.00	1000	PRB	09/08/23	1215	2482707	7
Boron		0.300	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1212	2482707	8
Calcium		294	0.800	2.00	mg/L	1.00	10					
Cobalt		3.79	0.00300	0.0100	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		13.8	0.800	3.00	mg/L	1.00	10					
Sodium		65.3	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1342	2482707	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0149	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00430	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	11

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I Project: GPCC00101
Sample ID: 634650004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1047	2486265	12
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 634650005 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.81	0.0670	0.200	mg/L		1	JLD1	08/24/23	1833	2482649	1
Fluoride		0.252	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	JLD1	08/25/23	0358	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1116	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1345	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0221	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000539	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0257	2482707	5
Cobalt		0.0309	0.000300	0.00100	mg/L	1.00	1					
Iron		1.18	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00516	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.62	0.0800	0.300	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1218	2482707	6
Boron		0.706	0.0520	0.150	mg/L	1.00	10					
Calcium		56.8	0.800	2.00	mg/L	1.00	10					
Magnesium		37.7	0.100	0.300	mg/L	1.00	10					
Manganese		6.97	0.0100	0.0500	mg/L	1.00	10					
Sodium		18.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		503	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 634650005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		29.1	0.725	2.00	mg/L			JW2	09/01/23	1049	2486265	9
Bicarbonate alkalinity (CaCO ₃)		29.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I	Project: GPCC00101
Sample ID: 634650006	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 10:55	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	LXA2	08/24/23	1932	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2550	26.6	80.0	mg/L		200	LXA2	08/25/23	2118	2482641	2
Chloride		36.5	1.34	4.00	mg/L		20	LXA2	08/25/23	2149	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1118	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		10.6	0.300	1.00	mg/L	1.00	1000	PRB	09/08/23	1224	2482707	5
Manganese		380	1.00	5.00	mg/L	1.00	1000					
Calcium		363	0.800	2.00	mg/L	1.00	10	PRB	09/08/23	1221	2482707	6
Magnesium		261	0.100	0.300	mg/L	1.00	10					
Potassium		13.5	0.800	3.00	mg/L	1.00	10					
Sodium		75.3	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00834	0.00520	0.0150	mg/L	1.00	1	PRB	09/08/23	0301	2482707	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		3.00	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0126	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1349	2482707	8
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0177	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0163	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1454	2482707	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I Project: GPCC00101
Sample ID: 634650006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.9	0.725	2.00	mg/L			JW2	09/01/23	1051	2486265	12
Bicarbonate alkalinity (CaCO ₃)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:08
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.218	0.0330	0.100	mg/L		1	JLD1	08/24/23	1905	2482649	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		23.0	1.68	5.00	mg/L		25	JLD1	08/25/23	0429	2482649	2
Sulfate		298	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1119	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1227	2482707	4
Arsenic	J	0.00342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00625	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1231	2482707	5
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Manganese		0.851	0.00500	0.0250	mg/L	1.00	5					
Potassium		11.4	0.400	1.50	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0304	2482707	6
Cobalt		0.00106	0.000300	0.00100	mg/L	1.00	1					
Iron		1.04	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00399	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		122	0.725	2.00	mg/L			JW2	09/01/23	1053	2486265	9
Bicarbonate alkalinity (CaCO ₃)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001
Matrix: WQ
Collect Date: 23-AUG-23 14:50
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	1936	2482649	1
Fluoride		0.516	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1121	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1234	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00104	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.105	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00124	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.370	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	5

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L		JW2	09/01/23	1056	2486265		6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 634650009 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1220	26.6	80.0	mg/L		200	JLD1	08/25/23	0532	2482649	1
Chloride		14.7	0.335	1.00	mg/L		5	JLD1	08/25/23	0501	2482649	2
Fluoride		0.583	0.0330	0.100	mg/L		1	JLD1	08/24/23	2007	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1123	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1352	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00731	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0319	2482707	6
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0392	0.00300	0.0100	mg/L	1.00	1					
Potassium		9.96	0.0800	0.300	mg/L	1.00	1					
Beryllium		0.00869	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1243	2482707	7
Boron		0.366	0.0260	0.0750	mg/L	1.00	5					
Calcium		220	0.400	1.00	mg/L	1.00	5					
Cobalt		1.43	0.00150	0.00500	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Sodium		51.3	0.400	1.25	mg/L	1.00	5					
Manganese		78.2	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1246	2482707	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2000	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01	Project: GPCC00101
Sample ID: 634650009	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	09/01/23	1058	2486265	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02	Project: GPCC00101
Sample ID: 634650010	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:00	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	JLD1	08/24/23	2039	2482649	1
Fluoride		0.255	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		295	3.33	10.0	mg/L		25	JLD1	08/25/23	0603	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1124	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1355	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0217	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1249	2482707	5
Boron		0.699	0.0520	0.150	mg/L	1.00	10					
Calcium		53.4	0.800	2.00	mg/L	1.00	10					
Magnesium		36.0	0.100	0.300	mg/L	1.00	10					
Manganese		6.63	0.0100	0.0500	mg/L	1.00	10					
Sodium		17.8	0.800	2.50	mg/L	1.00	10					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0322	2482707	6
Cobalt		0.0300	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.42	0.0800	0.300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 634650010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		29.7	0.725	2.00	mg/L			JW2	09/01/23	1100	2486265	9
Bicarbonate alkalinity (CaCO ₃)		29.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 634650011 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 11:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	0.335	1.00	mg/L		5	JLD1	08/25/23	0738	2482649	1
Sulfate		1290	26.6	80.0	mg/L		200	JLD1	08/25/23	0809	2482649	2
Fluoride		0.499	0.0330	0.100	mg/L		1	JLD1	08/24/23	2110	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1126	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1358	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00744	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		103	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1255	2482707	6
Beryllium		0.00867	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1252	2482707	7
Boron		0.372	0.0260	0.0750	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Cobalt		1.38	0.00150	0.00500	mg/L	1.00	5					
Magnesium		142	0.0500	0.150	mg/L	1.00	5					
Potassium		10.6	0.400	1.50	mg/L	1.00	5					
Sodium		49.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0326	2482707	8
Iron		0.409	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0393	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2180	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
 Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50	Project: GPCC00101
Sample ID: 634650011	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.0	0.725	2.00	mg/L			JW2	09/01/23	1101	2486265	11
Bicarbonate alkalinity (CaCO3)		11.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04	Project: GPCC00101
Sample ID: 634650012	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 11:35	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	2142	2482649	1
Fluoride		0.503	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1128	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1259	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0165	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00140	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.359	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 634650012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1104	2486265	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 634650013 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:40
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		49.5	0.665	2.00	mg/L		5	JLD1	08/25/23	1308	2482649	1
Chloride		6.83	0.0670	0.200	mg/L		1	JLD1	08/24/23	2213	2482649	2
Fluoride		0.195	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1133	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1302	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0555	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0501	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00560	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.478	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.44	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.35	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1305	2482707	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1058	2482961	7

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44	Project: GPCC00101
Sample ID: 634650013	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.3	0.725	2.00	mg/L			JW2	09/01/23	1105	2486265	8
Bicarbonate alkalinity (CaCO3)		81.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 634650014	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:30	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.1	0.335	1.00	mg/L		5	JLD1	08/25/23	1340	2482649	1
Sulfate		854	13.3	40.0	mg/L		100	JLD1	08/25/23	1411	2482649	2
Fluoride		0.193	0.0330	0.100	mg/L		1	JLD1	08/24/23	2244	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1134	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0337	2482707	5
Cobalt		0.00991	0.000300	0.00100	mg/L	1.00	1					
Iron		4.37	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0232	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1401	2482707	6
Arsenic	J	0.00300	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0312	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1308	2482707	7
Boron		0.285	0.0260	0.0750	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Magnesium		73.3	0.0500	0.150	mg/L	1.00	5					
Manganese		2.56	0.00500	0.0250	mg/L	1.00	5					
Potassium		12.0	0.400	1.50	mg/L	1.00	5					
Sodium		39.5	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1360	4.76	20.0	mg/L			CH6	08/30/23	1542	2484583	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1300	2483779	9

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 634650014	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		72.2	0.725	2.00	mg/L			JW2	09/01/23	1107	2486265	10
Bicarbonate alkalinity (CaCO3)		72.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03	Project: GPCC00101
Sample ID: 634768001	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 12:00	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.4	0.670	2.00	mg/L		10	JLD1	08/26/23	1600	2483105	1
Sulfate		112	1.33	4.00	mg/L		10					
Fluoride		0.198	0.0330	0.100	mg/L		1	JLD1	08/25/23	1644	2483105	2
Nitrate-N	J	0.0476	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1212	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1808	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0442	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00228	0.000300	0.00100	mg/L	1.00	1					
Iron		0.170	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.220	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.04	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/30/23	1648	2484591	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 634768001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.1	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05	Project: GPCC00101
Sample ID: 634768002	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-23 09:55	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/25/23	1826	2483105	1
Fluoride	J	0.0798	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1213	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1811	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.104	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	5

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L		JW2	09/01/23	1112	2486267		6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I	Project: GPCC00101
Sample ID: 634768003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 12:25	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.81	0.0670	0.200	mg/L		1	JLD1	08/25/23	1857	2483105	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0657	0.0330	0.100	mg/L		1					
Sulfate		94.5	1.33	4.00	mg/L		10	JLD1	08/26/23	1631	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1215	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1840	2483979	4
Calcium		74.4	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1815	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00601	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0749	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.53	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.458	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1301	2483779	7

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I Project: GPCC00101
Sample ID: 634768003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		35.6	0.725	2.00	mg/L			JW2	09/01/23	1114	2486267	8
Bicarbonate alkalinity (CaCO ₃)		35.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 12:06
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.5	0.670	2.00	mg/L		10	JLD1	08/26/23	1702	2483105	1
Sulfate		114	1.33	4.00	mg/L		10					
Fluoride		0.185	0.0330	0.100	mg/L		1	JLD1	08/25/23	1928	2483105	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1217	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1855	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0444	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00221	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.211	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000356	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		242	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.2	0.725	2.00	mg/L			JW2	09/01/23	1116	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-75I	Project: GPCC00101
Sample ID: 634768005	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 10:51	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.84	0.0670	0.200	mg/L		1	JLD1	08/25/23	2102	2483105	1
Fluoride		0.140	0.0330	0.100	mg/L		1					
Nitrate-N		0.794	0.0330	0.100	mg/L		1					
Sulfate		275	2.66	8.00	mg/L		20	JLD1	08/26/23	1734	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1218	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.51	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1902	2483979	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1858	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0513	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		47.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.464	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00579	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0957	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.45	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0696	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		430	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	7

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-75I Project: GPCC00101
Sample ID: 634768005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.2	0.725	2.00	mg/L			JW2	09/01/23	1118	2486267	8
Bicarbonate alkalinity (CaCO ₃)		27.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
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Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 14:15
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	1.68	5.00	mg/L		25	JLD1	08/26/23	1805	2483105	1
Sulfate		309	3.33	10.0	mg/L		25					
Fluoride		0.157	0.0330	0.100	mg/L		1	JLD1	08/25/23	2134	2483105	2
Nitrate-N	J	0.0475	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1220	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1906	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0346	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000590	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0585	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.66	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0423	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.47	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1909	2483979	5
Calcium		69.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1415	2483133	7

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		42.6	0.725	2.00	mg/L			JW2	09/01/23	1122	2486267	8
Bicarbonate alkalinity (CaCO ₃)		42.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 15:20
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		288	3.33	10.0	mg/L		25	JLD1	08/26/23	1837	2483105	1
Chloride		6.08	0.0670	0.200	mg/L		1	JLD1	08/25/23	2205	2483105	2
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N		0.297	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1222	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.34	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1924	2483979	4
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Manganese		1.38	0.0200	0.100	mg/L	1.00	20					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1036	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1920	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0174	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00113	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00724	0.000300	0.00100	mg/L	1.00	1					
Iron		23.3	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.76	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1124	2486267	9
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 11:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		22.2	2.68	8.00	mg/L		40	HXC1	08/25/23	2133	2483150	1
Sulfate		346	5.32	16.0	mg/L		40					
Fluoride		0.395	0.0330	0.100	mg/L		1	HXC1	08/25/23	1439	2483150	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1223	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1927	2483979	4
Arsenic	J	0.00408	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0448	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0387	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000427	0.000300	0.00100	mg/L	1.00	1					
Iron		1.82	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00142	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		52.2	1.60	5.00	mg/L	1.00	20	PRB	09/07/23	1038	2483979	5
Calcium		120	1.60	4.00	mg/L	1.00	20	PRB	09/06/23	1931	2483979	6
Manganese		1.34	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		638	4.76	20.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide		0.192	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	8

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		134	0.725	2.00	mg/L			JW2	09/01/23	1125	2486267	9
Bicarbonate alkalinity (CaCO ₃)		134	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03	Project: GPCC00101
Sample ID: 634768009	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-23 12:55	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/25/23	1510	2483150	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1225	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1935	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium	J	0.185	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1040	2483979	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 634768009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1129	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23 14:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.282	0.0670	0.200	mg/L		1	HXC1	08/25/23	1541	2483150	1
Fluoride		0.435	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1227	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium	J	0.115	0.0800	0.200	mg/L	1.00	1	PRB	09/07/23	1042	2483979	3
Sodium		0.352	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1938	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000812	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0180	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1417	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1130	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I	Project: GPCC00101
Sample ID: 634768011	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 13:05	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		150	1.33	4.00	mg/L		10	HXC1	08/25/23	2204	2483150	1
Fluoride	J	0.188	0.0660	0.200	mg/L		2	HXC1	08/25/23	2234	2483150	2
Chloride		6.28	0.0670	0.200	mg/L		1	HXC1	08/25/23	1612	2483150	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1232	2483668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.87	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1945	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1942	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0415	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000317	0.000300	0.00100	mg/L	1.00	1					
Iron		0.956	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.549	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000782	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1044	2483979	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		281	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	9

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I Project: GPCC00101
Sample ID: 634768011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		53.3	0.725	2.00	mg/L			JW2	09/01/23	1133	2486267	10
Bicarbonate alkalinity (CaCO ₃)		53.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47	Project: GPCC00101
Sample ID: 634768012	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 14:45	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.67	0.0670	0.200	mg/L		1	HXC1	08/25/23	1643	2483150	1
Fluoride		0.243	0.0330	0.100	mg/L		1					
Nitrate-N		0.117	0.0330	0.100	mg/L		1					
Sulfate		1300	26.6	80.0	mg/L		200	HXC1	08/25/23	2305	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1233	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1956	2483979	4
Arsenic	J	0.00380	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.291	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00873	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.689	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2000	2483979	5
Calcium		347	0.800	2.00	mg/L	1.00	10					
Magnesium		133	0.100	0.300	mg/L	1.00	10					
Sodium		44.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1046	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 634768012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.3	0.725	2.00	mg/L			JW2	09/01/23	1135	2486267	9
Bicarbonate alkalinity (CaCO ₃)		27.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 16:47
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	HXC1	08/25/23	1726	2483150	1
Fluoride		0.250	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		174	2.66	8.00	mg/L		20	HXC1	08/25/23	2336	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1235	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2004	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0271	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00343	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	2007	2483979	5
Calcium		69.6	1.60	4.00	mg/L	1.00	20					
Manganese		2.14	0.0200	0.100	mg/L	1.00	20					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1048	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		354	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1419	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		98.8	0.725	2.00	mg/L			JW2	09/01/23	1137	2486267	9
Bicarbonate alkalinity (CaCO ₃)		98.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-57I Project: GPCC00101
Sample ID: 634444001 Client ID: GPCC001
Matrix: WG
Collect Date: 21-AUG-23 17:55
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	634444002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:45		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 12:40
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.41	0.0670	0.200	mg/L		1	JLD1	08/23/23	1959	2481584	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Nitrate-N		0.212	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1209	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0916	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2308	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0434	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0390	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.95	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0877	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.18	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.81	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.63	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.9	0.725	2.00	mg/L			JW2	08/24/23	1610	2482476	7
Bicarbonate alkalinity (CaCO ₃)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 15:22
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/23/23	2030	2481584	1
Fluoride		0.116	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1250	13.3	40.0	mg/L		100	JLD1	08/24/23	1118	2481584	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1211	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.05	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0918	2482703	4
Calcium		414	1.60	4.00	mg/L	1.00	20					
Magnesium		63.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.40	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2312	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00183	0.000300	0.00100	mg/L	1.00	1					
Iron		0.992	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00111	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		30.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1920	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1743	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		126	0.725	2.00	mg/L			JW2	08/24/23	1612	2482476	8
Bicarbonate alkalinity (CaCO ₃)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S	Project: GPCC00101
Sample ID: 634444005	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 14:20	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		256	3.33	10.0	mg/L		25	JLD1	08/24/23	1150	2481584	1
Chloride		4.30	0.0670	0.200	mg/L		1	JLD1	08/23/23	2102	2481584	2
Fluoride	J	0.0477	0.0330	0.100	mg/L		1					
Nitrate-N		0.184	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1216	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2315	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0935	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium		0.210	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00207	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0920	2482703	5
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0922	2482703	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		412	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S Project: GPCC00101
Sample ID: 634444005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		28.6	0.725	2.00	mg/L			JW2	08/24/23	1615	2482476	9
Bicarbonate alkalinity (CaCO ₃)		28.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I Project: GPCC00101
Sample ID: 634444006 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 16:15
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1440	26.6	80.0	mg/L		200	HXC1	08/24/23	1638	2481608	1
Chloride		15.7	0.335	1.00	mg/L		5	HXC1	08/25/23	0258	2481608	2
Fluoride		0.188	0.0330	0.100	mg/L		1	HXC1	08/23/23	1911	2481608	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1218	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		107	0.500	2.50	mg/L	1.00	500	PRB	09/01/23	0928	2482703	5
Sodium		59.6	0.800	2.50	mg/L	1.00	10	PRB	09/01/23	1032	2482703	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2319	2482703	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0127	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00145	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000496	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.757	0.000300	0.00100	mg/L	1.00	1					
Iron		0.348	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0106	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.30	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00483	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.331	0.0260	0.0750	mg/L	1.00	5	PRB	09/01/23	0951	2482703	8
Calcium		209	0.400	1.00	mg/L	1.00	5					
Magnesium		172	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	10

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-611 Project: GPCC00101
Sample ID: 634444006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		11.3	0.725	2.00	mg/L			JW2	08/24/23	1616	2482476	11
Bicarbonate alkalinity (CaCO ₃)		11.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001
Matrix: WQ
Collect Date: 22-AUG-23 14:00
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.388	0.0330	0.100	mg/L		1	HXC1	08/25/23	0227	2481608	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/23/23	1941	2481608	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1219	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2330	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000729	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00673	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0283	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.291	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0934	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1618	2482476	8
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 7, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
QC1205499912	634768007	DUP									
Chloride		6.08		5.97	mg/L	1.71		(0%-20%)	JLD1	08/25/23	22:37
Fluoride	J	0.0849	J	0.0881	mg/L	3.7	^	(+/-0.100)			
Nitrate-N		0.297		0.293	mg/L	1.36	^	(+/-0.100)			
Sulfate		288		292	mg/L	1.47		(0%-20%)		08/26/23	19:08
QC1205499911	LCS										
Chloride	5.00			4.84	mg/L			96.7 (90%-110%)		08/26/23	00:42
Fluoride	2.50			2.57	mg/L			103 (90%-110%)			
Nitrate-N	2.50			2.40	mg/L			96 (90%-110%)			
Sulfate	10.0			9.88	mg/L			98.8 (90%-110%)			
QC1205499910	MB										
Chloride			U	ND	mg/L					08/26/23	00:11
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499913	634768007	PS									
Chloride	5.00	6.08		11.6	mg/L			110 (90%-110%)		08/25/23	23:08

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
Fluoride	2.50	J	0.0849	2.82	mg/L		109	(90%-110%)	JLD1	08/25/23	23:08
Nitrate-N	2.50		0.297	2.74	mg/L		97.6	(90%-110%)			
Sulfate	10.0		11.5	21.8	mg/L		103	(90%-110%)		08/26/23	19:39
Batch	2483150										
QC1205499980	634784001 DUP										
Chloride			4.43	4.44	mg/L	0.11		(0%-20%)	HXC1	08/25/23	18:28
Fluoride			0.334	0.337	mg/L	0.983	^	(+/-0.100)			
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66	^	(+/-0.100)		
Sulfate			293	294	mg/L	0.0981		(0%-20%)		08/26/23	00:38
QC1205499979	LCS										
Chloride	5.00			4.79	mg/L		95.9	(90%-110%)		08/25/23	21:02
Fluoride	2.50			2.49	mg/L		99.6	(90%-110%)			
Nitrate-N	2.50			2.38	mg/L		95.4	(90%-110%)			
Sulfate	10.0			9.79	mg/L		97.9	(90%-110%)			
QC1205499978	MB										
Chloride			U	ND	mg/L					08/25/23	19:29
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483150										
Sulfate			U	ND	mg/L				HXC1	08/25/23	19:29
QC1205499981 634784001 PS											
Chloride	5.00	4.43		9.90	mg/L		109	(90%-110%)		08/25/23	18:59
Fluoride	2.50	0.334		2.76	mg/L		97	(90%-110%)			
Nitrate-N	2.50	J 0.0807		2.45	mg/L		94.7	(90%-110%)			
Sulfate	10.0	7.33		17.7	mg/L		103	(90%-110%)		08/26/23	01:09

Metals Analysis - ICPMS

Batch	2483979										
QC1205501592 LCS											
Antimony	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	09/06/23	18:04
Arsenic	0.0500			0.0507	mg/L		101	(80%-120%)			
Barium	0.0500			0.0497	mg/L		99.5	(80%-120%)			
Beryllium	0.0500			0.0581	mg/L		116	(80%-120%)			
Boron	0.100			0.110	mg/L		110	(80%-120%)			
Cadmium	0.0500			0.0516	mg/L		103	(80%-120%)			
Calcium	2.00			2.10	mg/L		105	(80%-120%)			
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)			
Cobalt	0.0500			0.0507	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Iron	2.00			2.01	mg/L		101	(80%-120%)	PRB	09/06/23	18:04
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)			
Magnesium	2.00			2.08	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)			
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)			
Sodium	2.00			2.25	mg/L		112	(80%-120%)			
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)			
QC1205501591	MB										
Antimony			U	ND	mg/L					09/06/23	18:00
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cadmium			U	ND	mg/L				PRB	09/06/23	18:00
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205501593	634768003	MS									
Antimony	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)		09/06/23	18:18

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QC Summary

Workorder: 634768

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2483979											
Arsenic	0.0500	U	ND		0.0514	mg/L		99.8	(75%-125%)	PRB	09/06/23	18:18
Barium	0.0500		0.0151		0.0634	mg/L		96.5	(75%-125%)			
Beryllium	0.0500	U	ND		0.0551	mg/L		110	(75%-125%)			
Boron	0.100		1.25		1.39	mg/L		N/A	(75%-125%)		09/06/23	18:44
Cadmium	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)		09/06/23	18:18
Calcium	2.00		74.4		76.1	mg/L		N/A	(75%-125%)		09/06/23	18:44
Chromium	0.0500	U	ND		0.0497	mg/L		99	(75%-125%)		09/06/23	18:18
Cobalt	0.0500		0.00601		0.0548	mg/L		97.6	(75%-125%)			
Iron	2.00	J	0.0749		2.05	mg/L		98.8	(75%-125%)			
Lead	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)			
Lithium	0.0500	U	ND		0.0547	mg/L		107	(75%-125%)			
Magnesium	2.00		6.53		8.41	mg/L		94.2	(75%-125%)			
Manganese	0.0500		0.458		0.511	mg/L		N/A	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)			
Potassium	2.00		4.90		6.94	mg/L		102	(75%-125%)			

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QC Summary

Workorder: 634768

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Selenium	0.0500	U	ND	0.0488	mg/L		97.5	(75%-125%)	PRB	09/06/23	18:18
Sodium	2.00		16.3	18.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0490	mg/L		98	(75%-125%)			
QC1205501594	634768003 MSD										
Antimony	0.0500	U	ND	0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23	18:22
Arsenic	0.0500	U	ND	0.0495	mg/L	3.85	96	(0%-20%)			
Barium	0.0500		0.0151	0.0615	mg/L	3	92.7	(0%-20%)			
Beryllium	0.0500	U	ND	0.0552	mg/L	0.165	110	(0%-20%)			
Boron	0.100		1.25	1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23	18:47
Cadmium	0.0500	U	ND	0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23	18:22
Calcium	2.00		74.4	74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23	18:47
Chromium	0.0500	U	ND	0.0482	mg/L	3.1	96	(0%-20%)		09/06/23	18:22
Cobalt	0.0500		0.00601	0.0529	mg/L	3.54	93.8	(0%-20%)			
Iron	2.00	J	0.0749	1.96	mg/L	4.48	94.3	(0%-20%)			
Lead	0.0500	U	ND	0.0491	mg/L	2.44	98.1	(0%-20%)			
Lithium	0.0500	U	ND	0.0532	mg/L	2.78	104	(0%-20%)			

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Magnesium	2.00	6.53		8.23	mg/L	2.18	85.2	(0%-20%)	PRB	09/06/23	18:22
Manganese	0.0500	0.458		0.493	mg/L	3.49	N/A	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0513	mg/L	2.83	102	(0%-20%)			
Potassium	2.00	4.90		6.74	mg/L	2.93	92.1	(0%-20%)			
Selenium	0.0500	U	ND	0.0468	mg/L	4.28	93.4	(0%-20%)			
Sodium	2.00	16.3		17.9	mg/L	0.949	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0473	mg/L	3.67	94.4	(0%-20%)			
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		15.1	J	3.20	ug/L	5.84		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23	18:51
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Calcium		3720		786	ug/L	5.58		(0%-20%)		09/06/23	18:51
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cobalt		6.01		1.25	ug/L	4.24		(0%-20%)	PRB	09/06/23	18:29
Iron	J	74.9	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		6530		1280	ug/L	1.77		(0%-20%)			
Manganese		458		91.7	ug/L	.114		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		4900		968	ug/L	1.19		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		16300		3340	ug/L	2.56		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483668										
QC1205500965	634563009	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23	11:59
QC1205500964	LCS										
Mercury		0.00200		0.00214	mg/L		107	(80%-120%)		08/29/23	11:56
QC1205500963	MB										
Mercury			U	ND	mg/L					08/29/23	11:54

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483668										
QC1205500966	634563009	MS									
Mercury	0.00200	U	ND	0.00211	mg/L		106	(75%-125%)	AXS5	08/29/23	12:00
QC1205500967	634563009	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/29/23	12:02
Solids Analysis											
Batch	2484591										
QC1205502656	634511009	DUP									
Total Dissolved Solids			190	201	mg/L	5.63*		(0%-5%)	CH6	08/30/23	16:48
QC1205502655	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	16:48
QC1205502654	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	16:48
Batch	2484594										
QC1205502665	634784001	DUP									
Total Dissolved Solids			499	515	mg/L	3.16		(0%-5%)	CH6	08/30/23	17:18
QC1205502664	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	17:18
QC1205502663	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	17:18
Spectrometric Analysis											
Batch	2483133										
QC1205499947	LCS										
Total Sulfide	0.400			0.396	mg/L		99	(85%-115%)	JW2	08/25/23	14:10
QC1205499946	MB										
Total Sulfide			U	ND	mg/L					08/25/23	14:10

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch 2483133											
QC1205499950	634768004	PS									
Total Sulfide	0.400	U	ND	0.266	mg/L		65.8*	(75%-125%)	JW2	08/25/23	14:14
QC1205499951	634768004	PSD									
Total Sulfide	0.400	U	ND	0.273	mg/L	2.59	67.5*	(0%-15%)		08/25/23	14:15
Batch 2483779											
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
Titration and Ion Analysis											
Batch 2486267											
QC1205505693	LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23	11:10
QC1205505710	LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23	11:11

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2486267										
QC1205506027	LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)	JW2	09/01/23	11:11
QC1205506195	LCSD										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23	11:11

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 6, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634444

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
QC1205497354	634441001	DUP									
Chloride		32.7		32.5	mg/L	0.522	^	(+/-10.0)	JLD1	08/24/23	01:49
Fluoride		0.123		0.124	mg/L	1.13	^	(+/-0.100)		08/24/23	00:14
Nitrate-N	J	0.0707	J	0.0739	mg/L	4.43	^	(+/-0.100)			
Sulfate		466		474	mg/L	1.69		(0%-20%)		08/24/23	01:49
QC1205497353	LCS										
Chloride	5.00			4.64	mg/L			92.8 (90%-110%)		08/23/23	23:42
Fluoride	2.50			2.37	mg/L			94.6 (90%-110%)			
Nitrate-N	2.50			2.27	mg/L			91 (90%-110%)			
Sulfate	10.0			9.48	mg/L			94.8 (90%-110%)			
QC1205497352	MB										
Chloride			U	ND	mg/L					08/23/23	23:10
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497355	634441001	PS									
Chloride	5.00	0.654		5.10	mg/L			88.9* (90%-110%)		08/24/23	02:21

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
Fluoride	2.50	0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23	00:45
Nitrate-N	2.50	J 0.0707		2.29	mg/L		88.7*	(90%-110%)			
Sulfate	10.0	9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23	02:21
Batch	2481608										
QC1205497371	634145003 DUP										
Nitrite-N		0.000		0.000	mg/L	0	^	(+/-2.50)	HXC1	08/24/23	15:05
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)			
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)			
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Nitrate-N			U	ND	mg/L				HXC1	08/23/23	22:47
Sulfate			U	ND	mg/L						
QC1205497373 634145003 PS											
Nitrite-N	2.50	0.000		2.54	mg/L		101	(90%-110%)		08/24/23	15:36
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)			
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)		08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)	PRB	08/31/23	22:21
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)			
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Beryllium			U	ND	mg/L				PRB	08/31/23	22:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

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QC Summary

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Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium			U	ND	mg/L				PRB	08/31/23	22:18
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			
Beryllium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Boron	0.100		1.90	2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4	88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND	0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384	0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND	2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND	0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9	21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33	3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)	PRB	08/31/23	22:36
Potassium	2.00		3.52	5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7	23.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)			
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)	PRB	08/31/23	22:39
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)		08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Calcium		4170		869	ug/L	4.2		(0%-20%)	PRB	09/01/23	09:04
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Cobalt		3.84	J	0.796	ug/L	3.56		(0%-20%)			
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499045		LCS									
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)	JP2	08/25/23	11:58
QC1205499044		MB									
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047		634447002	MS								
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26
QC1205499048		634447002	SDILT								
Mercury		U	ND	U	ug/L	N/A		(0%-10%)		08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077		634352015	DUP								
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A		CH6	08/25/23	10:10
QC1205499076		LCS									
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075		MB									
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Spectrometric Analysis											
Batch	2481696										
QC1205497560		LCS									
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559		MB									
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561		634441001	PS								
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2482476										
QC1205498938	LCS										
Alkalinity, Total as CaCO3	50.0			50.2	mg/L		100	(90%-110%)	JW2	08/24/23	15:56
QC1205499028	LCSD										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L	0.991	101	(0%-20%)		08/24/23	15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634650

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
QC1205499056	634643001	DUP									
Chloride		2.56		2.56	mg/L	0.235		(0%-20%)	LXA2	08/24/23	23:40
Fluoride		2.34		2.35	mg/L	0.435		(0%-20%)			
Nitrate-N	J	0.0737	J	0.0724	mg/L	1.78	^	(+/-0.100)			
Sulfate		761		761	mg/L	0.0329		(0%-20%)		08/25/23	15:38
QC1205499055	LCS										
Chloride	5.00			4.61	mg/L		92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50			2.40	mg/L		96	(90%-110%)			
Nitrate-N	2.50			2.31	mg/L		92.4	(90%-110%)			
Sulfate	10.0			9.50	mg/L		95	(90%-110%)			
QC1205499054	MB										
Chloride			U	ND	mg/L					08/24/23	23:09
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499057	634643001	PS									
Chloride	5.00	2.56		7.48	mg/L		98.4	(90%-110%)		08/25/23	00:11

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
Fluoride	2.50	2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23	00:11
Nitrate-N	2.50	J 0.0737		2.40	mg/L		92.9	(90%-110%)			
Sulfate	10.0	7.61		17.7	mg/L		101	(90%-110%)		08/25/23	16:09
Batch	2482649										
QC1205499060	634519001 DUP										
Chloride		1.63		1.64	mg/L	0.527		(0%-20%)	JLD1	08/25/23	01:21
Fluoride		U ND	U	ND	mg/L	N/A					
Nitrate-N		U ND	U	ND	mg/L	N/A					
Sulfate		44.9		44.7	mg/L	0.427		(0%-20%)		08/25/23	12:06
QC1205499059	LCS										
Chloride	5.00			4.86	mg/L		97.2	(90%-110%)		08/25/23	03:27
Fluoride	2.50			2.58	mg/L		103	(90%-110%)			
Nitrate-N	2.50			2.42	mg/L		96.9	(90%-110%)			
Sulfate	10.0			9.95	mg/L		99.5	(90%-110%)			
QC1205499058	MB										
Chloride			U	ND	mg/L					08/25/23	02:55
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482649										
Sulfate			U	ND	mg/L				JLD1	08/25/23	02:55
QC1205499061 634519001 PS											
Chloride	5.00	1.63		6.55	mg/L		98.5	(90%-110%)		08/25/23	01:52
Fluoride	2.50	U	ND	2.54	mg/L		102	(90%-110%)			
Nitrate-N	2.50	U	ND	2.52	mg/L		101	(90%-110%)			
Sulfate	10.0	8.97		24.7	mg/L		157*	(90%-110%)		08/25/23	12:37
Metals Analysis - ICPMS											
Batch	2482707										
QC1205499175 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	09/08/23	11:22
Arsenic	0.0500			0.0510	mg/L		102	(80%-120%)			
Barium	0.0500			0.0569	mg/L		114	(80%-120%)			
Beryllium	0.0500			0.0494	mg/L		98.8	(80%-120%)			
Boron	0.100			0.0988	mg/L		98.8	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			2.11	mg/L		106	(80%-120%)			
Chromium	0.0500			0.0485	mg/L		97	(80%-120%)			
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Iron	2.00			1.98	mg/L		99.2	(80%-120%)	PRB	09/08/23	11:22
Lead	0.0500			0.0508	mg/L		102	(80%-120%)			
Lithium	0.0500			0.0466	mg/L		93.2	(80%-120%)			
Magnesium	2.00			1.90	mg/L		94.8	(80%-120%)			
Manganese	0.0500			0.0485	mg/L		96.9	(80%-120%)			
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)			
Potassium	2.00			2.08	mg/L		104	(80%-120%)			
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)			
Sodium	2.00			1.97	mg/L		98.4	(80%-120%)			
Thallium	0.0500			0.0493	mg/L		98.6	(80%-120%)			
QC1205499174	MB										
Antimony			U	ND	mg/L					09/08/23	11:17
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cadmium			U	ND	mg/L				PRB	09/08/23	11:17
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499176	634650001	MS									
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		09/08/23	13:21

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Arsenic	0.0500	U	ND	0.0551	mg/L		107	(75%-125%)	PRB	09/08/23	13:21
Barium	0.0500		0.0149	0.0690	mg/L		108	(75%-125%)			
Beryllium	0.0500	U	ND	0.0508	mg/L		102	(75%-125%)			
Boron	0.100		0.430	0.549	mg/L		N/A	(75%-125%)		09/08/23	11:34
Cadmium	0.0500	J	0.000679	0.0526	mg/L		104	(75%-125%)		09/08/23	13:21
Calcium	2.00		217	222	mg/L		N/A	(75%-125%)		09/08/23	11:34
Chromium	0.0500	U	ND	0.0505	mg/L		100	(75%-125%)		09/08/23	13:21
Cobalt	0.0500		0.0259	0.0776	mg/L		104	(75%-125%)			
Iron	2.00		0.136	2.16	mg/L		101	(75%-125%)			
Lead	0.0500	U	ND	0.0514	mg/L		103	(75%-125%)			
Lithium	0.0500		0.0221	0.0704	mg/L		96.6	(75%-125%)			
Magnesium	2.00		133	137	mg/L		N/A	(75%-125%)		09/08/23	11:34
Manganese	0.0500		49.9	51.3	mg/L		N/A	(75%-125%)		09/08/23	11:50
Molybdenum	0.0500	U	ND	0.0562	mg/L		112	(75%-125%)		09/08/23	13:21
Potassium	2.00		11.2	13.4	mg/L		N/A	(75%-125%)			

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Selenium	0.0500	U	ND	0.0554	mg/L		108	(75%-125%)	PRB	09/08/23	13:21
Sodium	2.00		43.6	46.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0505	mg/L		101	(75%-125%)			
QC1205499177	634650001 MSD										
Antimony	0.0500	U	ND	0.0526	mg/L	0.167	105	(0%-20%)		09/08/23	13:24
Arsenic	0.0500	U	ND	0.0552	mg/L	0.131	107	(0%-20%)			
Barium	0.0500		0.0149	0.0700	mg/L	1.5	110	(0%-20%)			
Beryllium	0.0500	U	ND	0.0509	mg/L	0.185	102	(0%-20%)			
Boron	0.100		0.430	0.530	mg/L	3.51	N/A	(0%-20%)		09/08/23	11:37
Cadmium	0.0500	J	0.000679	0.0533	mg/L	1.38	105	(0%-20%)		09/08/23	13:24
Calcium	2.00		217	222	mg/L	0.0188	N/A	(0%-20%)		09/08/23	11:37
Chromium	0.0500	U	ND	0.0513	mg/L	1.54	102	(0%-20%)		09/08/23	13:24
Cobalt	0.0500		0.0259	0.0786	mg/L	1.3	106	(0%-20%)			
Iron	2.00		0.136	2.20	mg/L	1.59	103	(0%-20%)			
Lead	0.0500	U	ND	0.0522	mg/L	1.56	104	(0%-20%)			
Lithium	0.0500		0.0221	0.0711	mg/L	0.982	98	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Magnesium	2.00	133		136	mg/L	0.591	N/A	(0%-20%)	PRB	09/08/23	11:37
Manganese	0.0500	49.9		51.7	mg/L	0.658	N/A	(0%-20%)		09/08/23	11:53
Molybdenum	0.0500	U	ND	0.0564	mg/L	0.314	113	(0%-20%)		09/08/23	13:24
Potassium	2.00	11.2		13.5	mg/L	0.441	N/A	(0%-20%)			
Selenium	0.0500	U	ND	0.0562	mg/L	1.52	110	(0%-20%)			
Sodium	2.00	43.6		46.9	mg/L	1.78	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0510	mg/L	0.921	102	(0%-20%)			
QC1205499178 634650001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		14.9	J	2.93	ug/L	2.02		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		86.1		19.1	ug/L	10.8		(0%-20%)		09/08/23	11:44
Cadmium		J	0.679	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Calcium		43400		8860	ug/L	2.09		(0%-20%)		09/08/23	11:44
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cobalt		25.9		5.46	ug/L	5.64		(0%-20%)	PRB	09/08/23	13:30
Iron		136	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		22.1	J	4.79	ug/L	8.29		(0%-20%)			
Magnesium		26700		5680	ug/L	6.41		(0%-20%)		09/08/23	11:44
Manganese		499		105	ug/L	5.59		(0%-20%)		09/08/23	11:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23	13:30
Potassium		11200		2280	ug/L	1.26		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		43600		9440	ug/L	8.17		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483666										
QC1205500954	LCS										
Mercury	0.00200			0.00207	mg/L		103	(80%-120%)	AXS5	08/29/23	11:03
QC1205500952	MB										
Mercury			U	ND	mg/L					08/29/23	11:02
QC1205500956	634765001	MS									
Mercury	0.0200	U	ND	0.0207	mg/L		103	(75%-125%)		08/29/23	11:37

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483666										
QC1205500957	634765001	MSD									
Mercury	0.0200	U	ND	0.0210	mg/L	1.82	105	(0%-20%)	AXS5	08/29/23	11:39
QC1205500958	634765001	SDILT									
Mercury		U	ND	ND	ug/L	N/A		(0%-10%)		08/29/23	11:41
Solids Analysis											
Batch	2484234										
QC1205502076	634643001	DUP									
Total Dissolved Solids			1270	1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03
Batch	2484583										
QC1205502645	634927001	DUP									
Total Dissolved Solids		U	ND	ND	mg/L	N/A			CH6	08/30/23	15:42
QC1205502641	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/30/23	15:42
QC1205502642	LCSD										
Total Dissolved Solids	300			304	mg/L	1.32	101	(0%-5%)		08/30/23	15:42
QC1205502640	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	15:42
Spectrometric Analysis											
Batch	2482961										
QC1205499656	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2482961										
QC1205499655	MB										
Total Sulfide			U	ND	mg/L				JW2	08/25/23	10:42
QC1205499657	634513005	PS									
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48
QC1205499658	634513005	PSD									
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23	10:48
Batch	2483779										
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
Titration and Ion Analysis											
Batch	2486265										
QC1205505688	LCS										
Alkalinity, Total as CaCO3	50.0			51.7	mg/L		103	(90%-110%)	JW2	09/01/23	10:39

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2486265										
QC1205505709	LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)	JW2	09/01/23	10:41
QC1205506026	LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.388	103	(0%-20%)		09/01/23	10:40
QC1205506194	LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	1.97	103	(0%-20%)		09/01/23	10:42

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

GEL LABORATORIES LLC

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QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
B											
The target analyte was detected in the associated blank.											
e											
5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes											
J											
See case narrative for an explanation											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634768**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2483979

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2483978

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205501591	Method Blank (MB) ICP-MS
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768011

(BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634768003 (BRA-BRGWC-27I), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634768							
	003	005	006	007	008	011	012	013
Boron	20X	20X	20X	20X	1X	20X	10X	20X
Calcium	20X	1X	20X	20X	20X	1X	10X	20X
Magnesium	1X	1X	1X	1X	1X	1X	10X	1X
Manganese	1X	1X	1X	20X	20X	1X	1X	20X
Sodium	1X	1X	1X	1X	20X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483667

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205500963	Method Blank (MB)CVAA

1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483105

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
1205499910	Method Blank (MB)
1205499911	Laboratory Control Sample (LCS)
1205499912	634768007(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205499913	634768007(BRA-BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499912 (BRA-BRGWC-29IDUP), 1205499913 (BRA-BRGWC-29IPS), 634768001 (BRA-APBCD-FD-03), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I) and 634768007 (BRA-BRGWC-29I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768					
	001	003	004	005	006	007
Chloride	10X	1X	10X	1X	25X	1X
Sulfate	10X	10X	10X	20X	25X	25X

Miscellaneous Information

Manual Integrations

Samples 634768001 (BRA-APBCD-FD-03) and 634768004 (BRA-BRGWC-45) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483150

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634768011 (BRA-BRGWC-52I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768			
	008	011	012	013

Chloride	40X	1X	1X	1X
Fluoride	1X	2X	1X	1X
Sulfate	40X	10X	200X	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484591

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
1205502654	Method Blank (MB)
1205502655	Laboratory Control Sample (LCS)
1205502656	634511009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205502656 (Non SDG 634511009DUP)	5.63* (0%-5%)

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484594

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I

634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634768008 (BRA-PZ-51D) and 634768012 (BRA-BRGWC-47).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483133

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768004	BRA-BRGWC-45
634768006	BRA-PZ-74I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499946	Method Blank (MB)
1205499947	Laboratory Control Sample (LCS)
1205499950	634768004(BRA-BRGWC-45) Post Spike (PS)
1205499951	634768004(BRA-BRGWC-45) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205499950 (BRA-BRGWC-45PS)	65.8* (75%-125%)
	1205499951 (BRA-BRGWC-45PSD)	67.5* (75%-125%)

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768003	BRA-BRGWC-27I
634768005	BRA-PZ-75I
634768007	BRA-BRGWC-29I
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)

	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486267

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768010 (BRA-APBCD-EB-06), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 634650**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482707

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482706

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499174	Method Blank (MB) ICP-MS
1205499175	Laboratory Control Sample (LCS)
1205499178	634650001(BRA-PZ-51IL) Serial Dilution (SD)
1205499176	634650001(BRA-PZ-51IS) Matrix Spike (MS)
1205499177	634650001(BRA-PZ-51ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 634650005 (BRA-PZ-63I), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	634650									
	001	002	004	005	006	007	009	010	011	013
Beryllium	1X	5X	1X	10X	1X	1X	5X	10X	5X	1X
Boron	5X	5X	10X	10X	1X	5X	5X	10X	5X	10X
Calcium	5X	5X	10X	10X	10X	5X	5X	10X	5X	1X
Cobalt	1X	5X	10X	1X	1000X	1X	5X	1X	5X	1X
Iron	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	5X	5X	10X	10X	10X	1X	5X	10X	5X	1X
Manganese	100X	100X	1000X	10X	1000X	5X	100X	10X	100X	1X
Potassium	1X	1X	10X	1X	10X	5X	1X	1X	5X	1X
Sodium	1X	5X	10X	10X	10X	5X	5X	10X	5X	1X

Analyte	634650
	014
Beryllium	5X
Boron	5X
Calcium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	5X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483666

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483665

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

634650001

Client Sample Identification

BRA-PZ-51I

634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205500952	Method Blank (MB)CVAA
1205500954	Laboratory Control Sample (LCS)
1205500958	634765001(NonSDGL) Serial Dilution (SD)
1205500956	634765001(NonSDGS) Matrix Spike (MS)
1205500957	634765001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information

Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205500956 (Non SDG 634765001MS), 1205500957 (Non SDG 634765001MSD) and 1205500958 (Non SDG 634765001SDILT).

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650006	BRA-PZ-64I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650			
	001	002	004	006
Chloride	1X	5X	10X	20X
Sulfate	100X	100X	200X	200X

Miscellaneous Information

Manual Integrations

Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I) and 634650004 (BRA-PZ-60I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482649

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650005	BRA-PZ-63I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499058	Method Blank (MB)
1205499059	Laboratory Control Sample (LCS)
1205499060	634519001(NonSDG) Sample Duplicate (DUP)
1205499061	634519001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205499061 (Non SDG 634519001PS)	157* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650						
	005	007	009	010	011	013	014
Chloride	1X	25X	5X	1X	5X	1X	5X
Sulfate	25X	25X	200X	25X	200X	5X	100X

Miscellaneous Information

Manual Integrations

Samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I

634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484583

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205502640	Method Blank (MB)
1205502641	Laboratory Control Sample (LCS)
1205502642	Laboratory Control Sample Duplicate (LCSD)
1205502645	634927001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634650009 (BRA-APBCD-FD-01), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650014	BRA-PZ-50D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486265

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205505688	Laboratory Control Sample (LCS)
1205505709	Laboratory Control Sample (LCS)
1205506026	Laboratory Control Sample Duplicate (LCSD)
1205506194	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650008 (BRA-APBCD-FB-02), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650012 (BRA-APBCD-EB-04), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 634444**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S) and 634444006 (BRA-PZ-61I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634444		
	004	005	006
Boron	20X	10X	5X
Calcium	20X	1X	5X
Magnesium	20X	1X	5X
Manganese	20X	1X	500X
Sodium	1X	1X	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481584

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634444004 (BRA-BRGWC-30I) and 634444005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444	
	004	005
Sulfate	100X	25X

Miscellaneous Information

Manual Integrations

Samples 634444003 (BRA-BRGWA-23S) and 634444005 (BRA-BRGWC-32S) were manually integrated to

correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP), 1205497373 (Non SDG 634145003PS) and 634444006 (BRA-PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444
	006
Chloride	5X
Sulfate	200X

Sample Re-analysis

Sample 634444007 (BRA-APBCD-FB-01) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634444004 (BRA-BRGWC-30I) and 634444006 (BRA-PZ-61I).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444001	BRA-PZ-57I
634444002	BRA-PZ-65I
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2482476

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634444003 (BRA-BRGWA-23S), 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S), 634444006 (BRA-PZ-61I) and 634444007 (BRA-APBCD-FB-01).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____



Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments
						Yes, please supply isotopic info.	Radiactive (if possible)		Known or Possible Hazards (7)	Metals *	EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	
BRA-PZ-51I	08/23/23	1500	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-58I	08/23/23	1510	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-59I	08/23/23	1140	G	N	WG			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-60I	08/23/23	1325	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-63I	08/23/23	1630	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-64I	08/23/23	1055	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-PZ-68D	08/23/23	1608	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-APBCD-FB-02	08/23/23	1450	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-APBCD-FD-01	08/23/23	---	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
BRA-APBCD-FD-02	08/23/23	---	G	N	WG			8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	8:41 AM
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	12:43 PM

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive, TSCA Regulated, PCB = Polychlorinated biphenyls
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

GEL Laboratories LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Work Order Number: _____
 Client Name: GA Power
 Phone # 404-506-7116
 Fax # _____
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA, 30308
 Collected By: J. Bennett ACC

Sample ID _____
 *For composites - indicate start and stop date/time

Sample ID	Date Collected (mm/dd/yr)	*Time Collected (Military) (hh:mm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radionuclide (d) Yes, please supply isotopic info.)	Should this sample be considered:	Total number of containers	Other	Comments
BRA-BR6WC-50	08/23/23	1100	G	N	WG		(7) Known or possible hazards	8	NI	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-EB-04	08/23/23	1135	G	N	WG			8	NI	
BRA-P2-44	08/23/23	1640	G	N	WG			8	NI	
BRA-P2-50D	08/23/23	1230	G	N	WG			8	NI	
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Send Results To: SCS & Geosyntec Contacts

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	8:41
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	12:43

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: *Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Mo,Se,Sn,Ti,Fe,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SF=Seiment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	Listed Waste LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	Other OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
---	--	--	---

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:		
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-3 ^B cooler 3-3 ^B cooler 2-3 ^B cooler 4-2 ^B cooler 5-3 ^B		
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____		
Sample Receipt Criteria		Yes	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/		Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/		Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See coolers above & below for temps</u>
4	Daily check performed and passed on IR temperature gun?	/		Temperature Device Serial #: <u>IR3-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	/		Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?	/		If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (if yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8	Samples received within holding time?	/		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/		ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/		
13	COC form is properly signed in relinquished/received sections?	/		Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): cooler 6-1 cooler 7-2 cooler 8-4 cooler 9-1				

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2



Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

- BRA-P2-511
- BRA-P2-591
- BRA-BRGWC-355
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-385
- BRA-P2-641
- BRA-P2-68D
- BRA-APBCD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

ET

Relog, Radium for

Page _____ of _____		Project # _____		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178	
GEL Quote # _____		Chain of Custody and Analytical Request		GEL Project Manager: Erin Trent	
COC Number 01 _____		GEL Work Order Number: _____		Sample Analysis Requested (9) (Fill in the number of containers for each test)	
Client Name: GA Power		Project/Site Name: Plant Branch Ash Ponds - BCD		Preservative Type (6)	
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308		Fax # _____		Comments Note: extra sample is required for sample specific QC	
Collected By: ACC		Send Results To: SCS & Geosyntec Contacts		Task Code: BRA-CCR-ASSMT-2023S2	
Sample ID * For compatibility - indicate start and stop date/time		*Date Collected (mm/dd/yy)		Total number of containers	
BRA-APBCD-FD-03	08/24/23	QC Code (6)	Field Filtered (6)	Sample Matrix (6)	Yes, please supply isotopic info (7) Known or possible isotopes
BRA-APBCD-EB-05	08/24/23	G	N	WG	
BRA-BRGWL-27I	08/24/23	0955	G	WQ	
BRA-BRGWL-45	08/24/23	1225	G	WQ	
BRA-PZ-75I	08/24/23	1206	G	WQ	
BRA-PZ-74I	08/24/23	1051	G	WQ	
BRA-BR6WC-29I	08/24/23	1415	G	WQ	
BRA-PZ-51D	08/24/23	1520	G	WQ	
BRA-APBCD-FB-03	08/24/23	1100	G	WQ	
BRA-APBCD-EB-06	08/24/23	1255	G	WQ	
	10	08/24/23	1400	G	WQ

Relinquished By (Signed) _____	Date _____	Received by (Signed) _____	Date _____	Time _____
1. _____	08/24/23	1. _____	0857	
2. _____		2. _____		
3. _____		3. _____		

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with L-Y; for soil the sample was field filtered in -N- for sample was not field filtered

4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lachate, SO=Soil, SE=Soil, SF=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. #260B, #610B, #740A) and number of containers provided for each (i.e. #260B - 3, #610B/740A - 4)

6.) Preservative Type: HA = Hydrofluoric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Acetic Acid, BX = Ipecac, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	As = Arsenic	Hg = Mercury	Se = Selenium
Ba = Barium	Cd = Cadmium	Ag = Silver	Cr = Chromium
Pb = Lead	MR = Misc. RCRA metals		

Characteristics Hazards

FL = Flammable/ignitable	RE = Reactive
LW = Listed Waste (F, K, P and U-hazard wastes)	TSCA Regulated PCB = polychlorinated biphenyls

Listed Waste

Other

OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Description: _____

034768 x 034781

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analyticals
 Chain of Custody and Analytical Request
 GEL Project Manager: Erik Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Project # _____ of _____
 GEL Quota # _____
 COC Number (1) _____
 PO Number _____

GEL Work Order Number: _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

Phone # 404-506-7116
 Fax # _____

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID <small>* For comparison - indicate start and stop date/time</small>	Date Collected (mm/dd/yyyy)	Time Collected (Military) (hh:mm)	QC Code in Field (3)	Field Filtered (4)	Sample Matrix (5)	Total number of containers		Should this sample be considered: (6)	Preservative Type (6)	Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
						(7) Known or (7) Unknown (8)	(9) Yes, please supply (9) No (10)			
BRA- BR6WC-52I	08/24/23	1305	G	N	WG	3	3			
BRA- BR6WC-47	08/24/23	1445	G	N	WG	3	3			
BRA- BR6WC-25I	08/24/23	1647	G	N	WG	3	3			
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Send Results To: SCS & Geosynce Contacts

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
<i>[Signature]</i>	8/24/23				

TAT Requested: Normal Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Co, Sb, Ba, Be, Cd, Cr, Cu, Pb, Li, Mn, Se, Ti, Fe, Mg, Mo, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Prices? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRF)

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EM = Equipment Blank, MS = Matrix Spike Sample, MSP = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filters: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4) Matrix Codes: W = Drinking Water, WC = Ground Water, WS = Surface Water, WTS = Water, WTS-Sediment, SO = Soil, SPS = Sediment, SL = Sludge, WQ = Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (e.g. H460, 6010B, 4710A) and number of containers provided for each (e.g. 2/600 - 1, 4010B/4710A - 1).

6) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SB = Sodium Hydroxide, SA = Sulfuric Acid, AA = Acetic Acid, BX = Hexane, ST = Sodium Thiosulfate. The preservative is added = have field blank

7) KNOWN OR POSSIBLE HAZARDS

Characteristics Hazards	Listed Waste
FL = Flammable/ignitable	LW = Listed Waste
CO = Corrosive	(F, K, P and U-listed wastes.)
RE = Reactive	Waste code(s):
TSCA Regulated	
PCB = Polychlorinated biphenyls	

Other: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634768 634781

Page: 1 of 2
 Project # _____
 GEL Quote #: _____
 COC Number 0: _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC

Sample ID	Date Collected (mm/dd/yy)	*Time Collected (Military/HHMM)	QC Codes		Field Filtered	Sample Matrix	Total number of containers	Should this sample be considered:		Comments
			QC	Field				(?) Known or Possible Hazards	Radioactive (Yes, please specify isotopic info.)	
BRA-APBCD-FD-03	08/24/23	0955	G	N	N	WG	8	✓	✓	SM 4500 SW-846 9315, 9320 Radium 226 & 228 BPA 6020, 6910, 7470 Metals * Tomb, Carb. & Heavy Air HPA 300, SM 2540C C, P, SO4, TDS, NO3
BRA-APBCD-EB-05	08/24/23	1225	G	N	N	WG	8	✓	✓	QC Note: extra sample is required for sample specific Task Code: BRA-CCR-ASSMT-2023S2
BRA-BRGWC-27I	08/24/23	1206	G	N	N	WG	8	✓	✓	
BRA-BRGWC-45	08/24/23	1051	G	N	N	WG	8	✓	✓	
BRA-PZ-75I	08/24/23	1415	G	N	N	WG	8	✓	✓	
BRA-PZ-74I	08/24/23	1520	G	N	N	WG	8	✓	✓	
BRA-BRGWC-29J	08/24/23	1100	G	N	N	WG	8	✓	✓	
BRA-PZ-51D	08/24/23	1255	G	N	N	WG	8	✓	✓	
BRA-APBCD-FB-03	08/24/23	1400	G	N	N	WG	8	✓	✓	
BRA-APBCD-EB-06	08/24/23	1400	G	N	N	WG	8	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	1730
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	0857

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SQ=Soil, SF=Sediment, ST=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) ~~KNOWN OR POSSIBLE HAZARDS~~
 Characteristic Hazards
 FL = Flammable/Ignitable
 LW = Listed Waste (F, K, P and U-listed wastes.)
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, tritium, other misc. health hazards, etc.)
 Description:

cooler 1-4
 cooler 2-4
 cooler 3-1
 cooler 4-1
 cooler 5-3

Please provide any additional details below regarding handling and/or disposal concerns: (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (C): _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
 Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

Client Name: GA Power
 Phone # 404-506-7116
 Fax # _____

Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	Date Collected (mm/dd/yyyy)	*Time Collected (Military (hh:mm))	QC Code (G)	Field Filtered (N)	Sample Matrix (WG)	Total number of containers		Should this sample be considered: (Yes, please supply isotopic info.)	Total number of containers	Comments
						Metals * BPA 6020, 6010, 7470	SM 2320B			
BRA-BR6WC-52E	08/24/23	1305	G	N	WG	8	8	SM 4500	QC	Task Code: BRA-CCR-ASSMT-2023S2
BRA-BR6WC-47	08/24/23	1445	G	N	WG	8	8	SM 4500	QC	
BRA-BR6WC-25J	08/24/23	1647	G	N	WG	8	8	SM 4500	QC	
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Sample Analysis Requested (S) (Fill in the number of containers for each test)

Sample Analysis Requested: Normal Rush: _____ Specify: _____ (Subject to Surcharge)

TAT Requested: Yes No

QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

Field Filtered: For liquid matrices, indicates with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WTW=Waste Water, WL=Leachate, SO=Soil, SE=Soil, SI=Sludge, WQ=Water Quality Control Matrix

Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____

1. Erin Trent 8/24/23 1730
 2. Dave Jones 8/25/23 0857
 3. _____

Additional Remarks: Level 1 [X] Level 2 [] Level 3 [] Level 4 []
QC Summary [] Level 1 [X] Level 2 [] Level 3 [] Level 4 []
 * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Fe, Mg, Mn, K, Na, Hg

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Chain of Custody Signatures

1.) Chain of Custody Number = Clear Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicates with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WTW=Waste Water, WL=Leachate, SO=Soil, SE=Soil, SI=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	As = Arsenic	Hg = Mercury	Se = Selenium	Ag = Silver
	Ba = Barium			MR = Misc. RCRA metals
	Cd = Cadmium			PCB = Polychlorinated biphenyls
	Cr = Chromium			
	Pb = Lead			

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s): _____

Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ET

634784
634789
634768
634781

SAMPLE RECEIPT & REVIEW FORM

Client: GPCCL			SDG/AR/COC/Work Order:		
Received By: EG			Date Received: 8/25/23 0857		
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-4° cooler 3-1° cooler 5-3° cooler 2-4° cooler 4-1°		
Suspected Hazard Information			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria			Comments/Qualifiers (Required for Non-Conforming Items)		
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Temperature Device Serial #: IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): containers BRA-P2-751, BRA-BRGWC-271, BRA-P2-53D, & BRA-BRGWC-291 preserved with NaOH/Zinc Acetate did not hold preservation					

PM (or PMA) review: Initials **AT** Date **8/28/23** Page **1** of **1**

034444 034446

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: J. Perrin ACC
 Send Results To: SCS & Geosyntec Contacts
 *For composites - indicate start and stop date/time

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments		
						Yes, please supply isotopic info.)	(7) Known or possible hazards	Total number of containers	Metals *	EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500		Preservative Type (6)	
BRA-P2-57J	08/21/23	1755	G	N	WG			1							
BRA-P2-65I	08/21/23	1745	G	N	WG			1							
BRA-BRCWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓				
BRA-BR6WC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓				
BRA-BR6WC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓				
BRA-P2-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓				
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓				
BRA-															
BRA-															
BRA-															

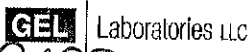
Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	8/23/23	0812	<u>[Signature]</u>	8/23/23	8:35
<u>[Signature]</u>	8/23/23	100	<u>[Signature]</u>	8/23/23	1300

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD-Drinking Water, WG-Groundwater, WS-Surface Water, WW-Waste Water, WL-Leachate, SO-Soil, SE-Sediment, SL-Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste (F,K,P and U-listed wastes), RE = Reactive
 Listed Waste: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 TSCA Regulated: PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals, Pb = Lead
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446



SAMPLE RECEIPT & REVIEW FORM

Client: <u>CDD</u>		SDG/AR/COC/Work Order: <u>1-1</u>			
Received By: <u>MVH</u>		Date Received: <u>8/23/2023</u>			
Carrier and Tracking Number		FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other <u>COOLR2-3</u> <u>COOLR4-1</u> <u>COOLR6-1</u> <u>COOLR1-2</u> <u>COOLR3-1</u> <u>COOLR5-2</u>			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample IDs and containers affected: <u>VOA-P2-G11, BRA-BREW-A-51, BRA-BREW-A-23S,</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-349, BRA-BREW-C-30I Sulfide Samples didnt hold proper preservation.</u>					

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

Office Main: 843.556.8171 | Fax: 843.766.1178

E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[\[gellaboratories.com\]](http://gellaboratories.com)



[\[linkedin.com\]](http://linkedin.com)

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Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Fitzgerald
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Generated 11/7/2023 1:47:46 PM

JOB DESCRIPTION

Plant Branch Ash Ponds

JOB NUMBER

680-242425-1

Eurofins Savannah

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.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Case Narrative

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Job ID: 680-242425-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-242425-1**

Receipt

The samples were received on 11/1/2023 1:00 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 2.8°C

General Chemistry

Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-806681 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-242425-1	BRA-BRGWA-2S	Water	10/30/23 15:20	11/01/23 13:00
680-242425-2	BRA-BRGWA-2I	Water	10/30/23 14:25	11/01/23 13:00
680-242425-3	BRA-PZ-44	Water	10/30/23 16:30	11/01/23 13:00
680-242425-4	BRA-PZ-64I	Water	10/31/23 15:15	11/01/23 13:00
680-242425-5	BRA-PZ-66I	Water	10/31/23 10:55	11/01/23 13:00
680-242425-6	BRA-PZ-59I	Water	10/31/23 16:50	11/01/23 13:00
680-242425-7	BRA-PZ-58I	Water	11/01/23 09:40	11/01/23 13:00
680-242425-8	BRA-BRGWA-6S	Water	10/30/23 14:15	11/01/23 13:00
680-242425-9	BRA-PZ-51I	Water	10/31/23 14:30	11/01/23 13:00
680-242425-10	BRA-PZ-51D	Water	10/31/23 12:45	11/01/23 13:00
680-242425-11	BRA-PZ-57I	Water	10/30/23 16:40	11/01/23 13:00
680-242425-12	BRA-PZ-65I	Water	10/31/23 10:45	11/01/23 13:00
680-242425-13	BRA-PZ-61I	Water	10/31/23 17:05	11/01/23 13:00



Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-BRGWA-2S

Lab Sample ID: 680-242425-1

No Detections.

Client Sample ID: BRA-BRGWA-2I

Lab Sample ID: 680-242425-2

No Detections.

Client Sample ID: BRA-PZ-44

Lab Sample ID: 680-242425-3

No Detections.

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-242425-4

No Detections.

Client Sample ID: BRA-PZ-66I

Lab Sample ID: 680-242425-5

No Detections.

Client Sample ID: BRA-PZ-59I

Lab Sample ID: 680-242425-6

No Detections.

Client Sample ID: BRA-PZ-58I

Lab Sample ID: 680-242425-7

No Detections.

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-242425-8

No Detections.

Client Sample ID: BRA-PZ-51I

Lab Sample ID: 680-242425-9

No Detections.

Client Sample ID: BRA-PZ-51D

Lab Sample ID: 680-242425-10

No Detections.

Client Sample ID: BRA-PZ-57I

Lab Sample ID: 680-242425-11

No Detections.

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-242425-12

No Detections.

Client Sample ID: BRA-PZ-61I

Lab Sample ID: 680-242425-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-BRGWA-2S

Lab Sample ID: 680-242425-1

Date Collected: 10/30/23 15:20

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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- 13
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-BRGWA-2I

Lab Sample ID: 680-242425-2

Date Collected: 10/30/23 14:25

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81	F1	0.81	0.81	mg/L			11/06/23 12:37	1

- 1
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- 13
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-44

Lab Sample ID: 680-242425-3

Date Collected: 10/30/23 16:30

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
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- 13
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-242425-4

Date Collected: 10/31/23 15:15

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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- 13
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-66I

Lab Sample ID: 680-242425-5

Date Collected: 10/31/23 10:55

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-59I

Lab Sample ID: 680-242425-6

Date Collected: 10/31/23 16:50

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-58I

Lab Sample ID: 680-242425-7

Date Collected: 11/01/23 09:40

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-242425-8

Date Collected: 10/30/23 14:15

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
- 3
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-511

Lab Sample ID: 680-242425-9

Date Collected: 10/31/23 14:30

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
- 3
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-51D

Lab Sample ID: 680-242425-10

Date Collected: 10/31/23 12:45

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
- 3
- 4
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-57I

Lab Sample ID: 680-242425-11

Date Collected: 10/30/23 16:40

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-242425-12

Date Collected: 10/31/23 10:45

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-611

Lab Sample ID: 680-242425-13

Date Collected: 10/31/23 17:05

Matrix: Water

Date Received: 11/01/23 13:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/06/23 12:37	1

- 1
- 2
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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-806681/1
Matrix: Water
Analysis Batch: 806681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/06/23 12:37	1

Lab Sample ID: LCS 680-806681/2
Matrix: Water
Analysis Batch: 806681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.62		mg/L		86	75 - 125

Lab Sample ID: LCSD 680-806681/3
Matrix: Water
Analysis Batch: 806681

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
Sulfide	10.0	8.87		mg/L		89	75 - 125	3	30

Lab Sample ID: 680-242425-2 MS
Matrix: Water
Analysis Batch: 806681

Client Sample ID: BRA-BRGWA-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81	F1	6.30	4.18	F1	mg/L		66	75 - 125

Lab Sample ID: 680-242425-2 MSD
Matrix: Water
Analysis Batch: 806681

Client Sample ID: BRA-BRGWA-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81	F1	6.30	4.18	F1	mg/L		66	75 - 125	0	30

Lab Sample ID: 680-242425-1 DU
Matrix: Water
Analysis Batch: 806681

Client Sample ID: BRA-BRGWA-2S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		<0.81		mg/L		NC	30

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

General Chemistry

Analysis Batch: 806681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242425-1	BRA-BRGWA-2S	Total/NA	Water	4500 S2 F-2011	
680-242425-2	BRA-BRGWA-2I	Total/NA	Water	4500 S2 F-2011	
680-242425-3	BRA-PZ-44	Total/NA	Water	4500 S2 F-2011	
680-242425-4	BRA-PZ-64I	Total/NA	Water	4500 S2 F-2011	
680-242425-5	BRA-PZ-66I	Total/NA	Water	4500 S2 F-2011	
680-242425-6	BRA-PZ-59I	Total/NA	Water	4500 S2 F-2011	
680-242425-7	BRA-PZ-58I	Total/NA	Water	4500 S2 F-2011	
680-242425-8	BRA-BRGWA-6S	Total/NA	Water	4500 S2 F-2011	
680-242425-9	BRA-PZ-51I	Total/NA	Water	4500 S2 F-2011	
680-242425-10	BRA-PZ-51D	Total/NA	Water	4500 S2 F-2011	
680-242425-11	BRA-PZ-57I	Total/NA	Water	4500 S2 F-2011	
680-242425-12	BRA-PZ-65I	Total/NA	Water	4500 S2 F-2011	
680-242425-13	BRA-PZ-61I	Total/NA	Water	4500 S2 F-2011	
MB 680-806681/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-806681/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-806681/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-242425-2 MS	BRA-BRGWA-2I	Total/NA	Water	4500 S2 F-2011	
680-242425-2 MSD	BRA-BRGWA-2I	Total/NA	Water	4500 S2 F-2011	
680-242425-1 DU	BRA-BRGWA-2S	Total/NA	Water	4500 S2 F-2011	



Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-BRGWA-2S

Lab Sample ID: 680-242425-1

Date Collected: 10/30/23 15:20

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWA-2I

Lab Sample ID: 680-242425-2

Date Collected: 10/30/23 14:25

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-44

Lab Sample ID: 680-242425-3

Date Collected: 10/30/23 16:30

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-64I

Lab Sample ID: 680-242425-4

Date Collected: 10/31/23 15:15

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-66I

Lab Sample ID: 680-242425-5

Date Collected: 10/31/23 10:55

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-59I

Lab Sample ID: 680-242425-6

Date Collected: 10/31/23 16:50

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-58I

Lab Sample ID: 680-242425-7

Date Collected: 11/01/23 09:40

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-BRGWA-6S

Lab Sample ID: 680-242425-8

Date Collected: 10/30/23 14:15

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-51I

Lab Sample ID: 680-242425-9

Date Collected: 10/31/23 14:30

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-51D

Lab Sample ID: 680-242425-10

Date Collected: 10/31/23 12:45

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-57I

Lab Sample ID: 680-242425-11

Date Collected: 10/30/23 16:40

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Client Sample ID: BRA-PZ-65I

Lab Sample ID: 680-242425-12

Date Collected: 10/31/23 10:45

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Client Sample ID: BRA-PZ-611

Lab Sample ID: 680-242425-13

Date Collected: 10/31/23 17:05

Matrix: Water

Date Received: 11/01/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	320 mL	806681	11/06/23 12:37	NVF	EET SAV
Instrument ID: NoEquip										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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- 14

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information		Sampler: <i>Silberstein A. Schmitt</i> ACC		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No: <i>1 of 2</i>	
Client Contact: Lauren Fitzgerald		Phone: <i>770-594-5998</i>		E-Mail: david.fuller@et.eurofinsus.com				Page:	
Company: Geosyntec Consultants Inc				Analysis Requested				Job #:	
Address: 1255 Roberts Blvd, NW Suite 200		Due Date Requested:		Field Filtered Sample (Yes or No) Sulfide (SM 4500-S2-F)				Total Number of containers	
City: Kennesaw		TAT Requested (days): <i>Standard</i>							
State, Zip: GA, 30144		Lab Project #: 68029735							
Phone:		PO #:							
Email: SCS Contacts / Geosyntec Contacts		Project #:						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Project Name: Plant Branch Ash Ponds		SSOW#:							
Site: Georgia								Task_Code: BRA-CCR-OTH-2023 Special Instructions/Note: Sulfide only	
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Sulfide (SM 4500-S2-F)	Total Number of containers	Other:
				Preservation Code:		X	X	BC	
BRA- <i>BR6WA-25</i>		<i>10/30/23</i>	<i>1520</i>	G	WG	N	N	✓	2
BRA- <i>BR6WA-2I</i>		<i>10/30/23</i>	<i>1425</i>	G	WG	N	N	✓	2
BRA- <i>PZ-44</i>		<i>10/30/23</i>	<i>1630</i>	G	WG	N	N	✓	2
BRA- <i>PZ-64I</i>		<i>10/31/23</i>	<i>1515</i>	G	WG	N	N	✓	2
BRA- <i>PZ-66I</i>		<i>10/31/23</i>	<i>1055</i>	G	WG	N	N	✓	2
BRA- <i>PZ-59I</i>		<i>10/31/23</i>	<i>1650</i>	G	WG	N	N	✓	2
BRA- <i>PZ-58I</i>		<i>11/01/23</i>	<i>0940</i>	G	WG	N	N	✓	2
BRA-				G	WG	N	N		
BRA-				G	WG	N	N		
BRA-				G	WG	N	N		
BRA-				G	WG	N	N		



Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>11/1/23 1300</i>		Company: <i>ACC</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2.5/2.8</i>			



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information		Sampler: <i>A Schmittler, J. Decker</i> ACC		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No:	
Client Contact: Lauren Fitzgerald		Phone: <i>770 594 5948</i>		E-Mail: david.fuller@et.eurofinsus.com				Page: <i>2 of 2</i>	
Company: Geosyntec Consultants Inc		Address: 1255 Roberts Blvd, NW Suite 200		City: Kennesaw		State, Zip: GA, 30144		Phone:	
Email: SCS Contacts / Geosyntec Contacts		Project Name: Plant Branch Ash Ponds		Site: Georgia		Due Date Requested:		Analysis Requested	
Lab Project #: 68029735		TAT Requested (days): <i>Standard</i>		PO #:		Job #:		Preservation Codes:	
Project #:		SSOW#:		Matrix (WG=ground water, WS=surface water, WQ=quality control)		Field Filtered Sample (Yes or No)		Sulfide (SM 4500-S2-F)	
Sample Identification		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Total Number of Containers	
						Preservation Code:		Task Code: BRA-CCR-OTH-2023 Special Instructions/Note: Sulfide only	
BRA- <i>BROWA-6S</i>		<i>10/30/23</i>		<i>1415</i>		G WG N N ✓		<i>2</i>	
BRA- <i>PZ-51I</i>		<i>10/31/23</i>		<i>1430</i>		G WG N N ✓		<i>2</i>	
BRA- <i>PZ-51D</i>		<i>10/31/23</i>		<i>1245</i>		G WG N N ✓		<i>2</i>	
BRA- <i>PZ-51I</i>		<i>10/30/23</i>		<i>1640</i>		G WG N N ✓		<i>2</i>	
BRA- <i>PZ-65I</i>		<i>10/31/23</i>		<i>1045</i>		G WG N N ✓		<i>2</i>	
BRA- <i>PZ-61I</i>		<i>10/31/23</i>		<i>1705</i>		G WG N N ✓		<i>2</i>	
BRA-						G WG N N			
BRA-						G WG N N			
BRA-						G WG N N			
BRA-						G WG N N			
BRA-						G WG N N			
BRA-						G WG N N			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For _____ Months	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>11/1/23 1300</i>		Company: <i>ACC</i>		Received by: <i>[Signature]</i>		Date/Time: <i>11/1/23 1300</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				<i>2.5/2.8</i>	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 680-242425-1

Login Number: 242425

List Number: 1

Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Branch Ash Ponds

Job ID: 680-242425-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

21-September-2023

SiREM Laboratory

Attn : Jacques Smith

Date Rec. : 31 July 2023
LR Report: CA19194-JUL23

180B Market Place Blvd
Knoxville, Tennessee
37922, USA

Copy: #1

Phone: 865-291-4695
Fax:

CERTIFICATE OF ANALYSIS
Final Report

Table with 10 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time Completed, 3: Analysis Date Completed, 4: Analysis Time, 5: PZ-69I (34-35), 6: PZ-71I (34-35), 7: PZ-72I (29-30), 8: PZ-73I (19-20). Rows include elements like Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, U, V, Y, Zn.

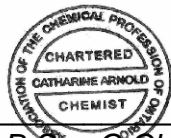
Summary table with 3 columns: Analysis, 9: PZ-74I (42-43), 10: PZ-75I (22-23). Row: Sample Date & Time, 17-Jul-23 15:00, 17-Jul-23 15:00

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - KOL 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA19194-JUL23

Analysis	9:	10:
	PZ-74I (42-43)	PZ-75I (22-23)
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	73000	59000
As [µg/g]	0.7	0.5
Ba [µg/g]	470	770
Be [µg/g]	1.8	2.1
Bi [µg/g]	0.37	0.12
Ca [µg/g]	40000	17000
Cd [µg/g]	0.08	0.07
Co [µg/g]	29	12
Cr [µg/g]	97	140
Cu [µg/g]	16	19
Fe [µg/g]	49000	20000
K [µg/g]	12000	30000
Li [µg/g]	18	12
Mg [µg/g]	27000	12000
Mn [µg/g]	860	450
Mo [µg/g]	3.0	3.8
Ni [µg/g]	95	44
Pb [µg/g]	16	37
Sb [µg/g]	< 0.8	< 0.8
Se [µg/g]	< 0.1	< 0.1
Sn [µg/g]	< 6	< 6
Sr [µg/g]	550	210
Ti [µg/g]	4700	1700
Tl [µg/g]	0.30	0.42
U [µg/g]	3.7	2.8
V [µg/g]	120	50
Y [µg/g]	15	14
Zn [µg/g]	70	31

Catharine Arnold 
Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis										
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
									Low	High		Low	High	
<i>*QCR_SubCategory* - QCBatchID: EMS0123-SEP23</i>														
Calcium	3	µg/g	<3			3		97						
Potassium	3	µg/g	<3			1		97						
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0123-SEP23</i>														
Aluminum	3	µg/g	<3			4	20	98	70	130				
Antimony	0.8	µg/g	<0.8			ND	20	97	70	130				
Arsenic	0.5	µg/g	<0.5			3	20	98	70	130				
Barium	0.01	µg/g	<0.01			2	20	94	70	130				
Beryllium	0.02	µg/g	<0.02			1	20	97	70	130				
Bismuth	0.09	µg/g	<0.09			9	20	100	70	130				
Cadmium	0.02	µg/g	<0.02			5	20	97	70	130				
Chromium	0.5	µg/g	<0.5			5	20	98	70	130				
Cobalt	0.01	µg/g	<0.01			1	20	97	70	130				
Copper	0.1	µg/g	<0.1			1	20	98	70	130				
Iron	3	µg/g	<3			1	20	101	70	130				
Lead	0.05	µg/g	<0.05			1	20	98	70	130				
Lithium	2	µg/g	<2			1	20	93	70	130				
Magnesium	3	µg/g	<0.1			0	20	99	70	130				
Manganese	0.1	µg/g	<0.1			0	20	95	70	130				
Molybdenum	0.1	µg/g	<0.1			1	20	100	70	130				
Nickel	0.1	µg/g	<0.1			1	20	98	70	130				
Selenium	0.1	µg/g	<0.1			19	20	95	70	130				
Silver	0.5	µg/g	<0.01			ND	20	106	70	130				
Strontium	0.02	µg/g	<0.02			4	20	95	70	130				
Thallium	0.02	µg/g	<0.02			2	20	NV	70	130				
Tin	6	µg/g	<6			ND	20	99	70	130				
Titanium	0.1	µg/g	<0.1			2	20	98	70	130				
Uranium	0.002	µg/g	<0.002			1	20	102	70	130				
Vanadium	1	µg/g	<1			1	20	97	70	130				
Yttrium	0.004	µg/g	<0.004			5	20	96	70	130				
Zinc	0.7	µg/g	<0.7			1	20	97	70	130				



ANALYSIS REPORT BBM23-31376

To F400101 SGS CANADA INC
LISA THOMPSON
185 Concession Street
Lakefield K0L 2H0
ON
CANADA

Order Number	PO#	Date Received	23-Aug-2023
Submission Number	CA19195-JUL23 / 6 Pulp	Date Analysed	30-Aug-2023 - 06-Sep-2023
Number of Samples	6	Date Completed	09-Sep-2023
		SGS Order Number	BBM23-31376

Methods Summary

Number of Sample	Method Code	Description
6	G_PHY01V	Loss on ignition (LOI), Furnace, variable wt, variable temp
6	GO_XRF72	Borate Fusion, XRF, Ore Grade

Comments

Preparation of samples was performed at the SGS Lakefield site.
Analysis of samples was performed at the SGS Burnaby site.

Authorised Signatory

John Chiang
Laboratory Operations Manager



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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number PO#
 Submission Number CA19195-JUL23 / 6 Pulp
 Number of Samples 6

ANALYSIS REPORT BBM23-31376

Element Method Lower Limit Upper Limit Unit	LOI G_PHY01V -10 100 %	@Al2O3 GO_XRF72 0.01 100 %	@CaO GO_XRF72 0.01 60 %	@Cr2O3 GO_XRF72 0.01 5 %	@Fe2O3 GO_XRF72 0.01 100 %	@K2O GO_XRF72 0.01 70 %
PZ-69I (34-35)	4.74905	18.81	4.42	0.01	9.64	2.25
PZ-71I (34-35)	2.50000	16.40	4.10	0.03	5.56	1.79
PZ-72I (29-30)	1.36014	14.75	3.33	0.02	5.95	2.12
PZ-73I (19-20)	2.43024	16.97	5.42	0.04	8.19	2.90
PZ-74I (42-43)	1.83982	14.05	5.30	0.01	6.87	1.46
PZ-75I (22-23)	1.78964	13.64	2.54	0.02	2.92	3.75
*Std OREAS 70b	6.78796	-	-	-	-	-
*Rep PZ-72I (29-30)	1.41000	-	-	-	-	-
*Std OREAS 70b	-	7.12	4.28	0.18	7.95	0.71
*Rep PZ-72I (29-30)	-	14.68	3.27	0.01	5.87	2.08
*Blk BLANK	-	<0.01	<0.01	<0.01	<0.01	<0.01
*Std OREAS 751	-	15.87	1.04	<0.01	2.40	2.89

Element Method Lower Limit Upper Limit Unit	@MgO GO_XRF72 0.01 100 %	Mn3O4 GO_XRF72 0.01 100 %	@Na2O GO_XRF72 0.01 60 %	@P2O5 GO_XRF72 0.01 55 %	@SiO2 GO_XRF72 0.01 100 %	@TiO2 GO_XRF72 0.01 100 %
PZ-69I (34-35)	4.34	0.21	2.64	0.45	51.30	1.15
PZ-71I (34-35)	2.66	0.14	3.27	0.31	62.83	0.71
PZ-72I (29-30)	2.33	0.13	3.08	0.15	66.48	0.73
PZ-73I (19-20)	5.39	0.22	3.20	0.42	54.08	0.82
PZ-74I (42-43)	4.39	0.12	2.88	0.18	62.35	0.82
PZ-75I (22-23)	1.98	0.07	2.45	0.07	70.80	0.30
*Std OREAS 70b	22.38	0.16	1.04	0.05	48.48	0.30
*Rep PZ-72I (29-30)	2.34	0.13	3.06	0.15	66.59	0.74
*Blk BLANK	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
*Std OREAS 751	0.50	0.10	3.40	0.27	71.34	0.24

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number PO#
Submission Number CA19195-JUL23 / 6 Pulp
Number of Samples 6

ANALYSIS REPORT BBM23-31376

Element Method	@V205 GO_XRF72	Sum GO_XRF72
Lower Limit	0.01	0.01
Upper Limit	10	100
Unit	%	%
PZ-69I (34-35)	0.03	95.30
PZ-71I (34-35)	0.01	97.86
PZ-72I (29-30)	0.02	99.16
PZ-73I (19-20)	0.02	97.74
PZ-74I (42-43)	0.03	98.51
PZ-75I (22-23)	0.01	98.65
*Std OREAS 70b	0.01	93.40
*Rep PZ-72I (29-30)	0.02	98.99
*Blk BLANK	<0.01	0.03
*Std OREAS 751	<0.01	98.27

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at <https://www.scc.ca/en/search/laboratories/sgs>
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

F402001 SGS LAKEFIELD RESEARCH
 PO BOX 4300
 185 CONCESSION STREET
 LAKEFIELD, ONTARIO ON K0L 2H0
 CANADA

Received : 19-Sep-2023
Completed : 02-Oct-2023
Order Reference : CA19197-Jul23 - PZ-69I(34-35)

Laboratory ID: Client Sample #: Description:	GS23-03906.001 PZ-69I(34-35) CA19197-Jul23	GS23-03906.002 PZ-71I(34-35)	GS23-03906.003 PZ-72I(29-30)	GS23-03906.004 PZ-73I(19-20)
CEC Actual (meq/100g)	8.19	4.78	6.61	8.66

NOTE:

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

Report File Reference Number: 0000285246

Signed and dated in Guelph, ON
On 02-Oct-2023

For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, CCA-ON, 4R NMS
 Branch Manager, Agronomist

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F402001 SGS LAKEFIELD RESEARCH
 PO BOX 4300
 185 CONCESSION STREET
 LAKEFIELD, ONTARIO ON K0L 2H0
 CANADA

Received : 19-Sep-2023
Completed : 02-Oct-2023
Order Reference : CA19197-Jul23 - PZ-69I(34-35)

Laboratory ID:	GS23-03906.005	GS23-03906.006
Client Sample #:	PZ-74I(42-43)	PZ-75I(22-23)
Description:		
CEC Actual (meq/100g)	6.04	5.48

NOTE:

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

Report File Reference Number: 0000285246

Signed and dated in Guelph, ON
On 02-Oct-2023

For and on behalf of SGS Canada Inc., Agriculture and Food



Jack Legg, CCA-ON, 4R NMS
 Branch Manager, Agronomist

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Quantitative X-Ray Diffraction by Rietveld Refinement

Report Prepared for: Environmental Services

Project Number/ LIMS No. Custom XRD/MI4525-AUG23

Sample Receipt: August 10, 2023

Sample Analysis: August 23, 2023

Reporting Date: September 13, 2023

Instrument: BRUKER AXS D8 Advance Diffractometer

Test Conditions: Co radiation, 35 kV, 40 mA; Detector: LYNXEYE
Regular Scanning: Step: 0.02°, Step time: 0.75s, 2θ range: 6-80°

Interpretations: PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPlus Eva and Topas software.

Detection Limit: 0.5-2%. Strongly dependent on crystallinity.

Contents:

- 1) Method Summary
- 2) Quantitative XRD Results
- 3) XRD Pattern(s)

Zhihai (Adrian) Zhang, Ph.D
Mineralogist

Kim Gibbs, H.B.Sc., P.Geo.
Senior Mineralogist

ACCREDITATION: SGS Natural Resources Lakefield is accredited to the requirements of ISO/IEC 17025 for specific tests as listed on our scope of accreditation, including geochemical, mineralogical and trade mineral tests. To view a list of the accredited methods, please visit the following website and search SGS Canada Inc. - Minerals: <https://www.scc.ca/en/search/palcan>.



Method Summary

The Rietveld Method of Mineral Identification by XRD (ME-LR-MIN-MET-MN-D05) method used by SGS Natural Resources is accredited to the requirements of ISO/IEC 17025.

Mineral Identification and Interpretation:

Mineral identification and interpretation involves matching the diffraction pattern of an unknown material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) database and released on software as Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds, except when internal standards have been added by request. Mineral proportions may be strongly influenced by crystallinity, crystal structure and preferred orientations. Mineral or compound identification and quantitative analysis results should be accompanied by supporting chemical assay data or other additional tests.

Quantitative Rietveld Analysis:

Quantitative Rietveld Analysis is performed by using Topas 4.2 (Bruker AXS), a graphics based profile analysis program built around a non-linear least squares fitting system, to determine the amount of different phases present in a multicomponent sample. Whole pattern analyses are predicated by the fact that the X-ray diffraction pattern is a total sum of both instrumental and specimen factors. Unlike other peak intensity-based methods, the Rietveld method uses a least squares approach to refine a theoretical line profile until it matches the obtained experimental patterns.

Rietveld refinement is completed with a set of minerals specifically identified for the sample. Zero values indicate that the mineral was included in the refinement calculations, but the calculated concentration was less than 0.05wt%. Minerals not identified by the analyst are not included in refinement calculations for specific samples and are indicated with a dash.

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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	PZ-69I (34-35)	PZ-71I (34-35)	PZ-72I (29-30)	PZ-73I (19-20)	PZ-74I (42-43)	PZ-75I (22-23)
	AUG4525-01	AUG4525-02	AUG4525-03	AUG4525-04	AUG4525-05	AUG4525-06
	(wt %)	(wt %)	(wt %)	(wt %)	(wt %)	(wt %)
Quartz	12.7	28.3	40.4	12.8	29.4	40.0
Actinolite	8.4	4.1	0.2	13.5	18.3	5.9
Albite	34.7	42.8	47.9	44.4	35.7	28.9
Orthoclase	1.7	1.4	1.3	1.4	0.5	-
Kaolinite	9.5	3.8	-	-	-	-
Muscovite	5.2	2.0	0.6	0.8	0.4	1.6
Cummingtonite	0.7	-	-	-	-	-
Biotite	18.3	13.0	9.7	20.6	12.1	3.8
Beraunite	4.5	2.6	-	0.7	3.6	0.1
Covellite	0.8	0.3	-	-	-	-
Diopside	3.4	1.7	-	-	-	-
Montmorillonite	-	-	-	2.9	-	0.3
Rutile	-	-	-	0.4	-	-
Anorthite	-	-	-	2.5	-	-
Microcline	-	-	-	-	-	19.4
TOTAL	100	100	100	100	100	100

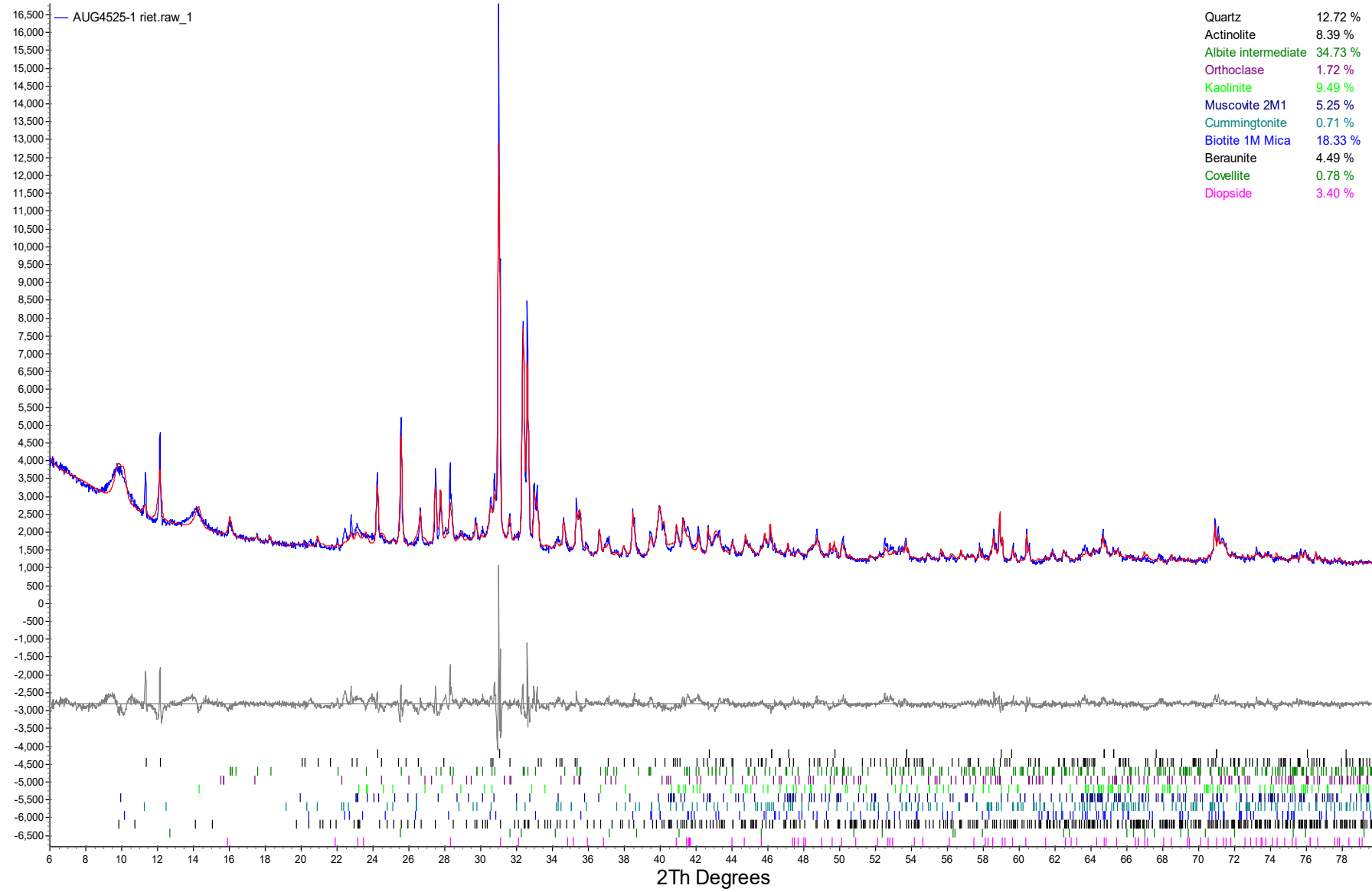
Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

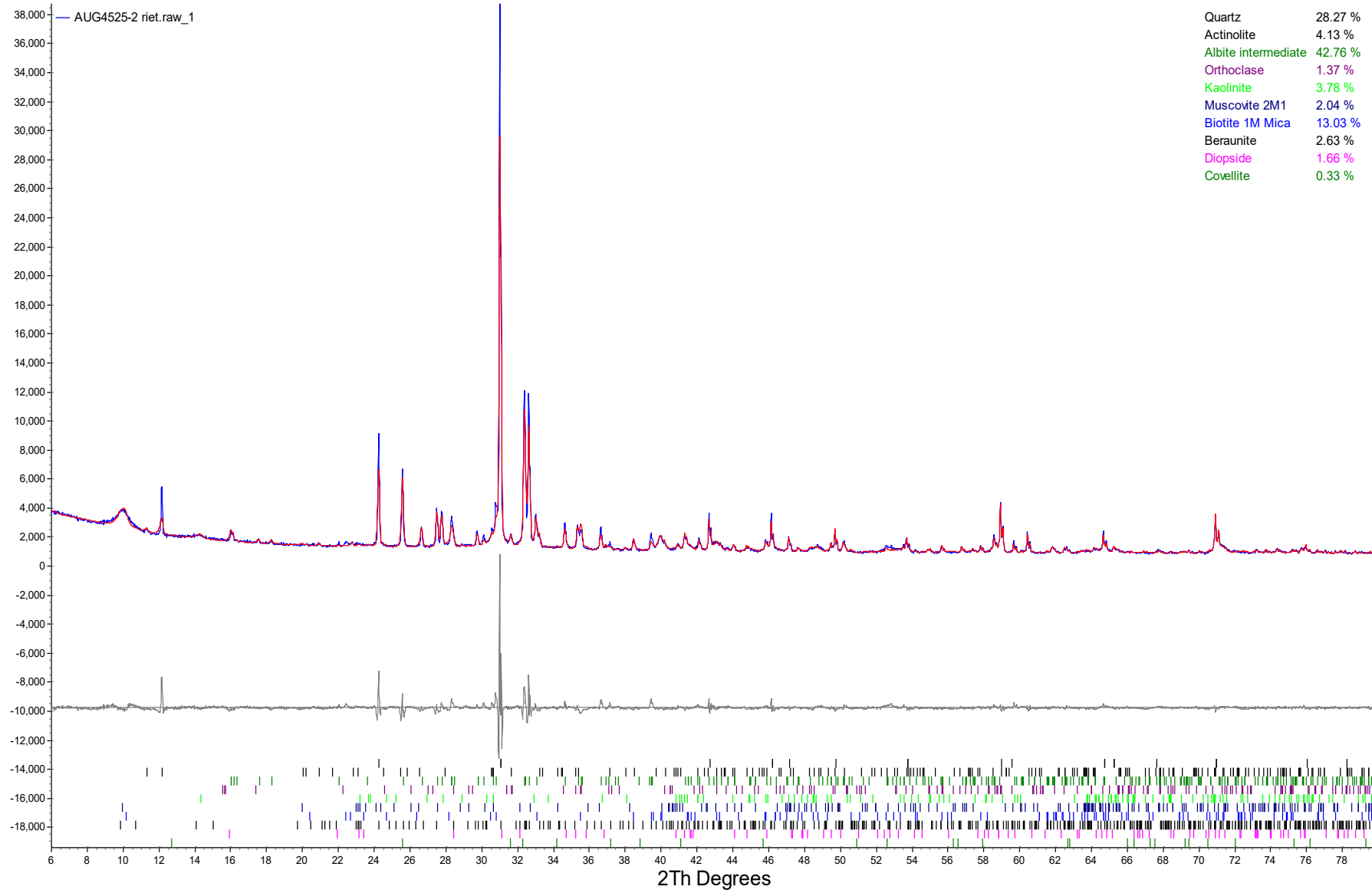
The weight percent quantities indicated have been normalized to a sum of 100%. The quantity of amorphous material has not been determined.

Mineral/Compound	Formula
Quartz	SiO ₂
Actinolite	Ca ₂ (Mg,Fe) ₅ Si ₈ O ₂₂ (OH) ₂
Albite	NaAlSi ₃ O ₈
Orthoclase	KAlSi ₃ O ₈
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄
Muscovite	KAl ₂ (AlSi ₃ O ₁₀)(OH) ₂
Cummingtonite	(Mg,Fe) ₇ Si ₈ O ₂₂ (OH) ₂
Biotite	K(Mg,Fe) ₃ (AlSi ₃ O ₁₀)(OH) ₂
Beraunite	Fe ₆ (OH) ₅ (H ₂ O) ₄ (PO ₄) ₄ (H ₂ O) ₂
Covellite	CuS
Diopside	CaMgSi ₂ O ₆
Montmorillonite	(Na,Ca) _{0.3} (Al,Mg) ₂ Si ₄ O ₁₀ (OH) ₂ ·10H ₂ O
Rutile	TiO ₂
Anorthite	CaAl ₂ Si ₂ O ₈
Microcline	KAlSi ₃ O ₈

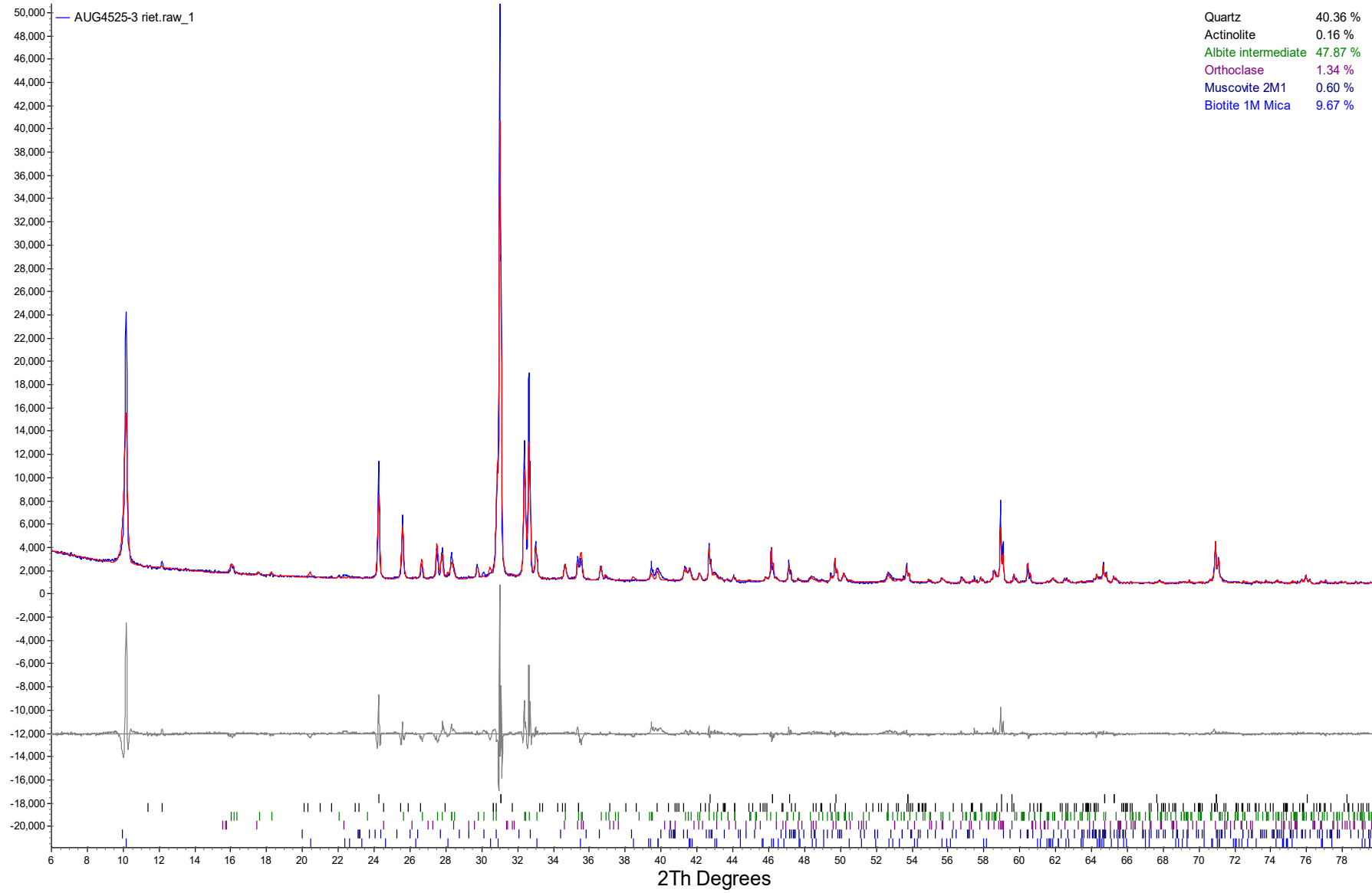
PZ-69I (34-35)



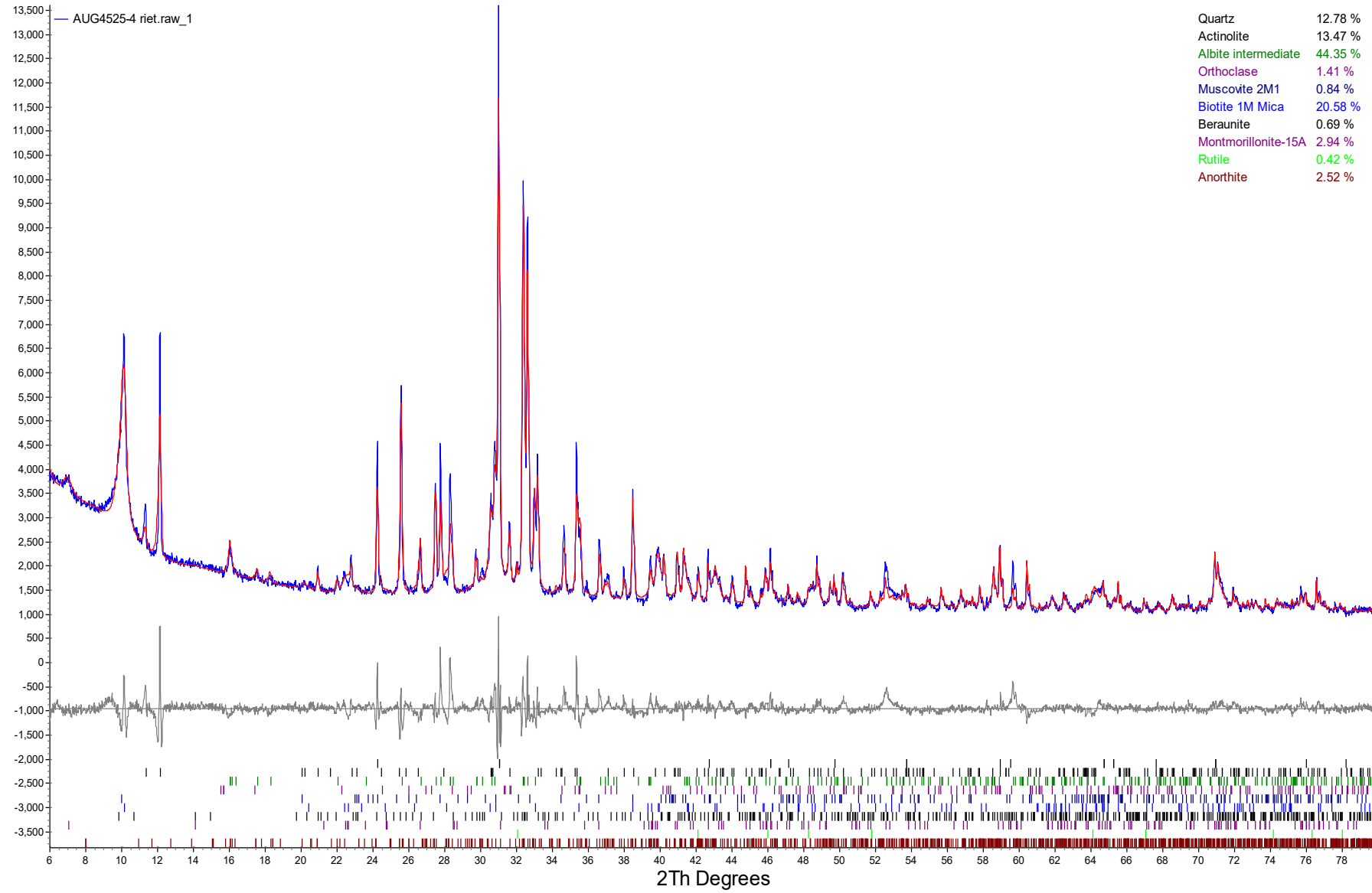
PZ-711 (34-35)



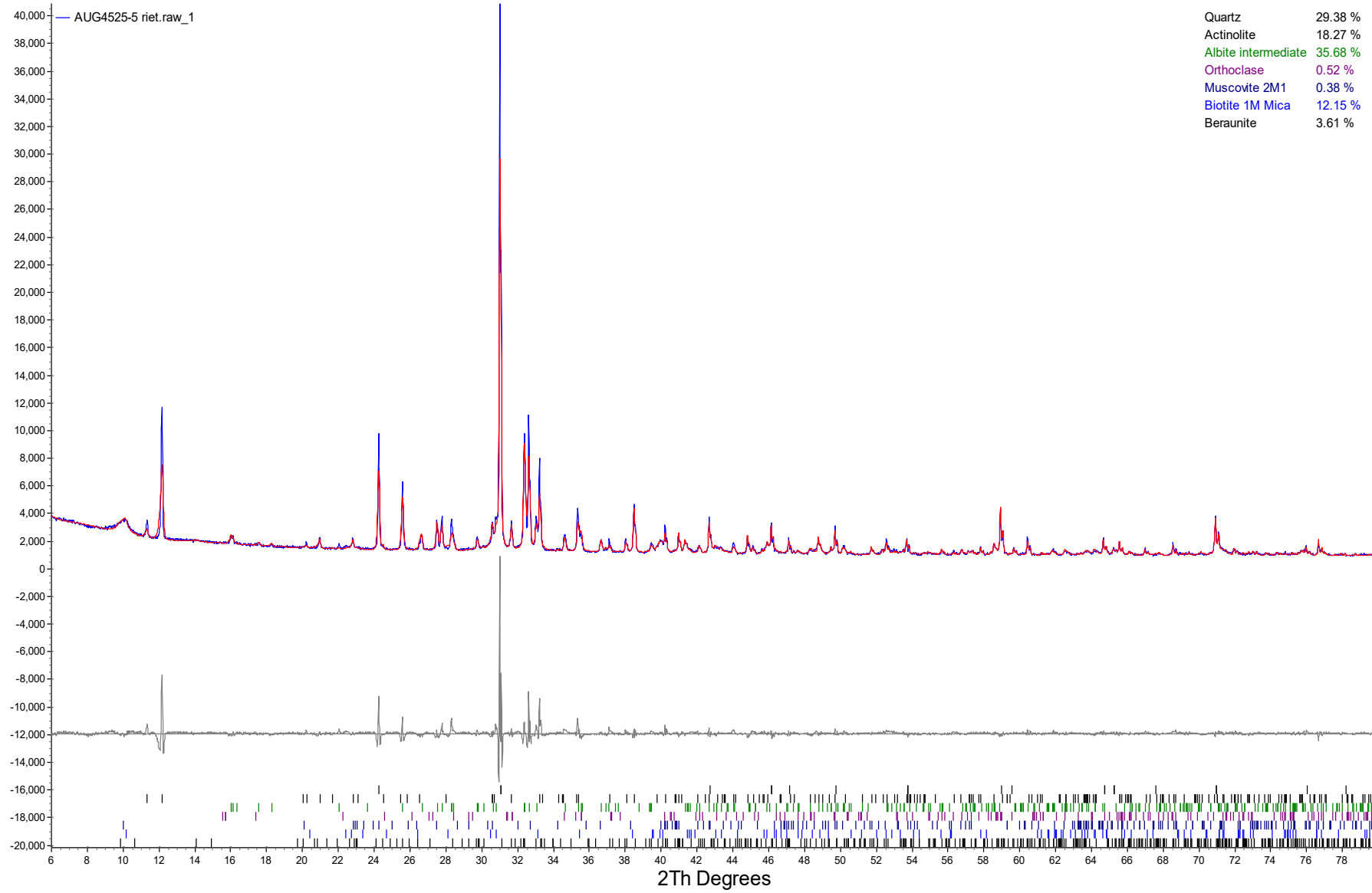
PZ-72I (29-30)



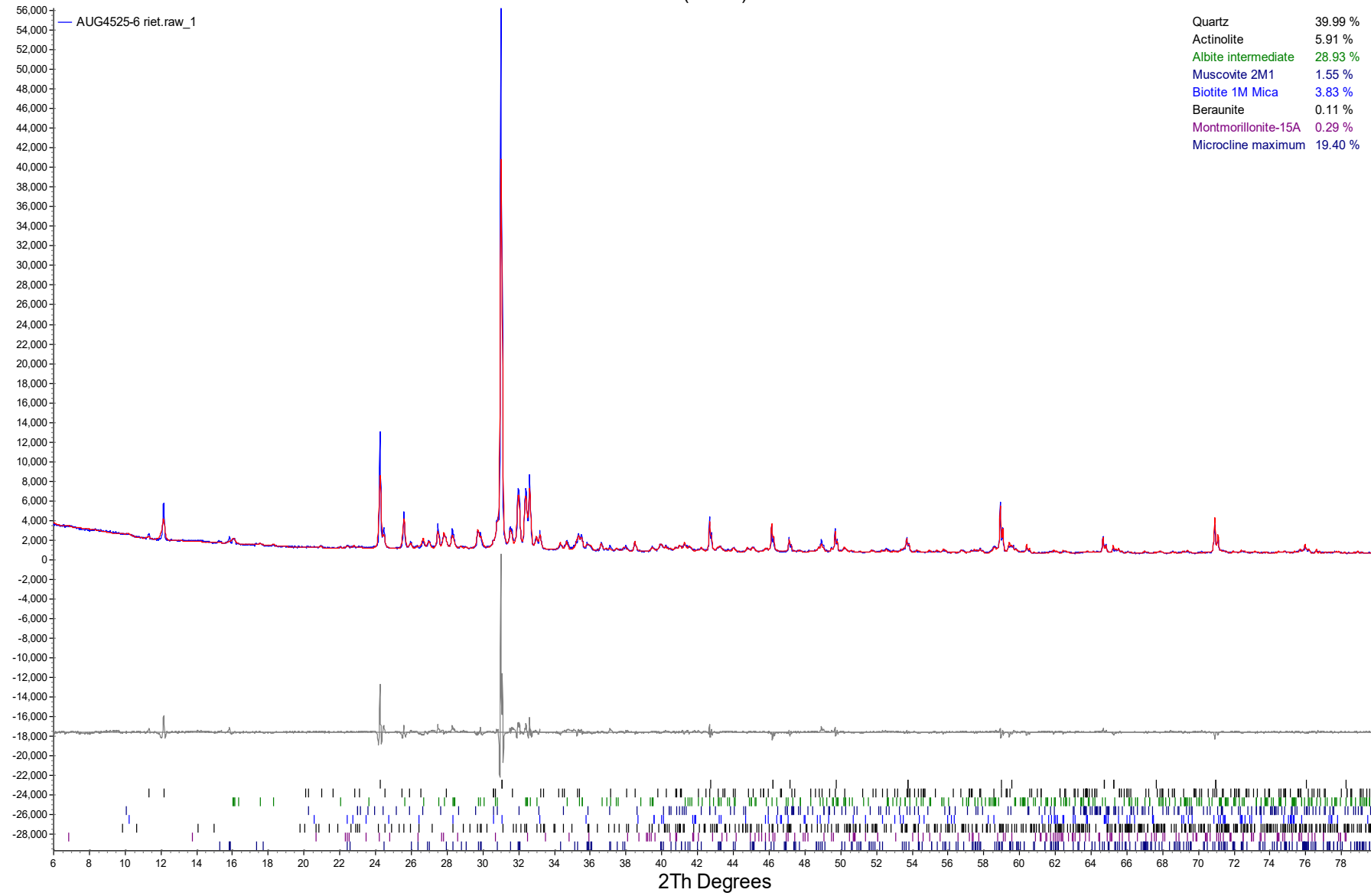
PZ-73I (19-20)



PZ-74I (42-43)



PZ-75I (22-23)





ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 7/26/2023 8:35:00 AM

JOB DESCRIPTION

Plant Branch Aquifer Analysis

JOB NUMBER

240-188888-1

Eurofins Cleveland

Job Notes

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Authorization

Roxanne Cisneros

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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Job ID: 240-188888-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-188888-1

Comments

No additional comments.

Receipt

The samples were received on 7/20/2023 3:00 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 was 25.6° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	ELLE
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
Moisture	Percent Moisture	EPA	EET CLE
3050B	Preparation, Metals	SW846	ELLE
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-188888-1	PZ-69I (34-35)	Solid	07/17/23 10:00	07/20/23 15:00
240-188888-2	PZ-71I (34-35)	Solid	07/17/23 10:00	07/20/23 15:00
240-188888-3	PZ-72I (29-30)	Solid	07/17/23 10:00	07/20/23 15:00
240-188888-4	PZ-73I (19-20)	Solid	07/17/23 10:00	07/20/23 15:00
240-188888-5	PZ-74I (42-43)	Solid	07/17/23 10:00	07/20/23 15:00
240-188888-6	PZ-75I (22-23)	Solid	07/17/23 10:00	07/20/23 15:00

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Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-69I (34-35)

Lab Sample ID: 240-188888-1

No Detections.

Client Sample ID: PZ-71I (34-35)

Lab Sample ID: 240-188888-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfur	21	J	37	8.8	mg/Kg	1	⊛	6010D	Total/NA

Client Sample ID: PZ-72I (29-30)

Lab Sample ID: 240-188888-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfur	26	J	40	9.7	mg/Kg	1	⊛	6010D	Total/NA

Client Sample ID: PZ-73I (19-20)

Lab Sample ID: 240-188888-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfur	26	J	38	9.2	mg/Kg	1	⊛	6010D	Total/NA

Client Sample ID: PZ-74I (42-43)

Lab Sample ID: 240-188888-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfur	23	J	36	8.6	mg/Kg	1	⊛	6010D	Total/NA

Client Sample ID: PZ-75I (22-23)

Lab Sample ID: 240-188888-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfur	27	J	44	11	mg/Kg	1	⊛	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-69I (34-35)

Lab Sample ID: 240-188888-1

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 77.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	14	U	59	14	mg/Kg	☼	07/23/23 19:43	07/25/23 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	19	U	39	19	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	19	U	39	19	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	77.6		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	22.4		0.1	0.1	%			07/21/23 14:20	1

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-71I (34-35)

Lab Sample ID: 240-188888-2

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 93.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	21	J	37	8.8	mg/Kg	☆	07/23/23 19:43	07/25/23 07:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	16	U	32	16	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	16	U	32	16	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	93.3		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	6.7		0.1	0.1	%			07/21/23 14:20	1

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-72I (29-30)

Lab Sample ID: 240-188888-3

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 88.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	26	J	40	9.7	mg/Kg	☼	07/23/23 19:43	07/25/23 07:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	16	U	34	16	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	16	U	34	16	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	88.9		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	11.1		0.1	0.1	%			07/21/23 14:20	1

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-73I (19-20)

Lab Sample ID: 240-188888-4

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 98.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	26	J	38	9.2	mg/Kg	☆	07/23/23 19:43	07/25/23 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	15	U	30	15	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	15	U	30	15	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	98.6		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	1.4		0.1	0.1	%			07/21/23 14:20	1

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-74I (42-43)

Lab Sample ID: 240-188888-5

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 96.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	23	J	36	8.6	mg/Kg	☆	07/23/23 19:43	07/25/23 06:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	15	U	31	15	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	15	U	31	15	mg/Kg	☆	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	96.8		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	3.2		0.1	0.1	%			07/21/23 14:20	1

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-75I (22-23)

Lab Sample ID: 240-188888-6

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/20/23 15:00

Percent Solids: 90.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	27	J	44	11	mg/Kg	☼	07/23/23 19:43	07/25/23 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	16	U	33	16	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S (SW846 9034)	16	U	33	16	mg/Kg	☼	07/21/23 10:50	07/21/23 10:56	1
Percent Solids (EPA Moisture)	90.9		0.1	0.1	%			07/21/23 14:20	1
Percent Moisture (EPA Moisture)	9.1		0.1	0.1	%			07/21/23 14:20	1

QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-399866/1-A
 Matrix: Solid
 Analysis Batch: 400519

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 399866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	12	U	50	12	mg/Kg		07/23/23 19:43	07/25/23 06:13	1

Lab Sample ID: LCS 410-399866/2-A
 Matrix: Solid
 Analysis Batch: 400519

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 399866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfur	500	503		mg/Kg		101	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-581422/1-A
 Matrix: Solid
 Analysis Batch: 581423

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 581422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	15	U	30	15	mg/Kg		07/21/23 10:50	07/21/23 10:56	1
Sulfide as H2S	15	U	30	15	mg/Kg		07/21/23 10:50	07/21/23 10:56	1

Lab Sample ID: LCS 240-581422/2-A
 Matrix: Solid
 Analysis Batch: 581423

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 581422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	80.0	56.0		mg/Kg		70	56 - 120

Lab Sample ID: 240-188888-6 MS
 Matrix: Solid
 Analysis Batch: 581423

Client Sample ID: PZ-75I (22-23)
 Prep Type: Total/NA
 Prep Batch: 581422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	16	U	88.0	61.6		mg/Kg	⊛	70	10 - 143

Lab Sample ID: 240-188888-6 MSD
 Matrix: Solid
 Analysis Batch: 581423

Client Sample ID: PZ-75I (22-23)
 Prep Type: Total/NA
 Prep Batch: 581422

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	16	U	88.0	66.0		mg/Kg	⊛	75	10 - 143	7	25

Method: Moisture - Percent Moisture

Lab Sample ID: 240-188888-6 DU
 Matrix: Solid
 Analysis Batch: 581464

Client Sample ID: PZ-75I (22-23)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	90.9		92.8		%		2	20
Percent Moisture	9.1		7.2	F3	%		22	20

Eurofins Cleveland

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Metals

Prep Batch: 399866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-1	PZ-69I (34-35)	Total/NA	Solid	3050B	
240-188888-2	PZ-71I (34-35)	Total/NA	Solid	3050B	
240-188888-3	PZ-72I (29-30)	Total/NA	Solid	3050B	
240-188888-4	PZ-73I (19-20)	Total/NA	Solid	3050B	
240-188888-5	PZ-74I (42-43)	Total/NA	Solid	3050B	
240-188888-6	PZ-75I (22-23)	Total/NA	Solid	3050B	
MB 410-399866/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-399866/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 400519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-1	PZ-69I (34-35)	Total/NA	Solid	6010D	399866
240-188888-2	PZ-71I (34-35)	Total/NA	Solid	6010D	399866
240-188888-3	PZ-72I (29-30)	Total/NA	Solid	6010D	399866
240-188888-4	PZ-73I (19-20)	Total/NA	Solid	6010D	399866
240-188888-5	PZ-74I (42-43)	Total/NA	Solid	6010D	399866
240-188888-6	PZ-75I (22-23)	Total/NA	Solid	6010D	399866
MB 410-399866/1-A	Method Blank	Total/NA	Solid	6010D	399866
LCS 410-399866/2-A	Lab Control Sample	Total/NA	Solid	6010D	399866

General Chemistry

Prep Batch: 581422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-1	PZ-69I (34-35)	Total/NA	Solid	9030B	
240-188888-2	PZ-71I (34-35)	Total/NA	Solid	9030B	
240-188888-3	PZ-72I (29-30)	Total/NA	Solid	9030B	
240-188888-4	PZ-73I (19-20)	Total/NA	Solid	9030B	
240-188888-5	PZ-74I (42-43)	Total/NA	Solid	9030B	
240-188888-6	PZ-75I (22-23)	Total/NA	Solid	9030B	
MB 240-581422/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-581422/2-A	Lab Control Sample	Total/NA	Solid	9030B	
240-188888-6 MS	PZ-75I (22-23)	Total/NA	Solid	9030B	
240-188888-6 MSD	PZ-75I (22-23)	Total/NA	Solid	9030B	

Analysis Batch: 581423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-1	PZ-69I (34-35)	Total/NA	Solid	9034	581422
240-188888-2	PZ-71I (34-35)	Total/NA	Solid	9034	581422
240-188888-3	PZ-72I (29-30)	Total/NA	Solid	9034	581422
240-188888-4	PZ-73I (19-20)	Total/NA	Solid	9034	581422
240-188888-5	PZ-74I (42-43)	Total/NA	Solid	9034	581422
240-188888-6	PZ-75I (22-23)	Total/NA	Solid	9034	581422
MB 240-581422/1-A	Method Blank	Total/NA	Solid	9034	581422
LCS 240-581422/2-A	Lab Control Sample	Total/NA	Solid	9034	581422
240-188888-6 MS	PZ-75I (22-23)	Total/NA	Solid	9034	581422
240-188888-6 MSD	PZ-75I (22-23)	Total/NA	Solid	9034	581422

Analysis Batch: 581464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-1	PZ-69I (34-35)	Total/NA	Solid	Moisture	

Eurofins Cleveland

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

General Chemistry (Continued)

Analysis Batch: 581464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188888-2	PZ-71I (34-35)	Total/NA	Solid	Moisture	
240-188888-3	PZ-72I (29-30)	Total/NA	Solid	Moisture	
240-188888-4	PZ-73I (19-20)	Total/NA	Solid	Moisture	
240-188888-5	PZ-74I (42-43)	Total/NA	Solid	Moisture	
240-188888-6	PZ-75I (22-23)	Total/NA	Solid	Moisture	
240-188888-6 DU	PZ-75I (22-23)	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-69I (34-35)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-69I (34-35)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-1

Matrix: Solid

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 07:07
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Client Sample ID: PZ-71I (34-35)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-71I (34-35)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-2

Matrix: Solid

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 07:11
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Client Sample ID: PZ-72I (29-30)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-72I (29-30)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-3

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 07:14
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Client Sample ID: PZ-73I (19-20)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-73I (19-20)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-4

Matrix: Solid

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 07:04
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Client Sample ID: PZ-74I (42-43)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-74I (42-43)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-5

Matrix: Solid

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 06:48
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Client Sample ID: PZ-75I (22-23)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 14:20

Client Sample ID: PZ-75I (22-23)

Date Collected: 07/17/23 10:00

Date Received: 07/20/23 15:00

Lab Sample ID: 240-188888-6

Matrix: Solid

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			399866	UAMX	ELLE	07/23/23 19:43
Total/NA	Analysis	6010D		1	400519	T8CQ	ELLE	07/25/23 07:18
Total/NA	Prep	9030B			581422	RP	EET CLE	07/21/23 10:50
Total/NA	Analysis	9034		1	581423	RP	EET CLE	07/21/23 10:56

Eurofins Cleveland

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-24-23
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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	08-09-23
California	State	2792	11-30-23
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	10-31-23
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

Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Branch Aquifer Analysis

Job ID: 240-188888-1

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
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
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	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
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	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-24
Washington	State	C457	04-11-24
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

25.2/25.6

Barberton, OH 44203-3543
phone 330.497.9396 fax 330.497.0772

Regulatory Program: DW NPDES RCRA Other.

Eurofins Environment Testing America

Client Contact SIREM 180B Market Place Blvd Knoxville TN 37922 865-330-0037 Phone (xxx) xxx-xxxx FAX Project Name Plant Branch Aquifer Analysis Site Plant Branch P O #		Project Manager: Jacques Smith Email: jsmith@siremiab.com Tel/Fax: 865-236-2696 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Date: _____ of 1 COCs Lab Contact: _____ Carrier: _____ Sampler: SS For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification PZ-09I (34-35) PZ-71I (34-35) PZ-72I (29-30) PZ-73I (19-20) PZ-74I (42-43) PZ-75I (22-23)		Filtered Sample (Y/N) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Perform MS/MSD (Y/N) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Total Sulfate <input checked="" type="checkbox"/> X Total Sulfide <input checked="" type="checkbox"/> X		Sample Specific Notes 240-188888 Chain of Custody	
Sample Date 07-17-23 07-17-23 07-17-23 07-17-23 07-17-23 07-17-23		Sample Time 1000 1000 1000 1000 1000 1000		Sample Type (C=Comp, G=Grab) G G G G G G	
		Matrix Soil Soil Soil Soil Soil Soil		# of Cont. 1 1 1 1 1 1	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-hazardous Flammable Skin Irritant Unknown
 Poison B Disposal by Lab Archive for _____ Months
 Return to Client

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes No

Relinquished by: **Sydney Spinell** **Ayden Spinell**
 Relinquished by: _____
 Relinquished by: _____

Custody Seal No. _____
 Company: **SIREM**
 Company: _____
 Company: _____

Received by: **M.A. A.**
 Company: **EES**
 Company: _____
 Company: _____

Therm ID No. _____
 Date/Time: **7/20/23** **15:00**
 Date/Time: _____
 Date/Time: _____



Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client SIREM Site Name _____
Cooler Received on 7/20/23 Opened on 7/20/23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Cooler unpacked by:
M. A. A.

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 13 (CF 4.4 °C) Observed Cooler Temp. 25.2 °C Corrected Cooler Temp. 25.6 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No

-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC312502

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

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FROM: (865) 330-0037
 Jacques Smith
 SIREM Knoxville
 1805 Market Place Blvd.
 KNOXVILLE TN 37922
 US

SHIP DATE: 18 JUL 23
 ACTWGT: 5.0018
 CAD: 10:59PM 24 JUNE 14640
 BILL SENDER

TO Eurofins TestAmerica
 Eurofins Test America
 180 South Van Buren Ave

BARBERTON OH 44203
 (330) 497-9396

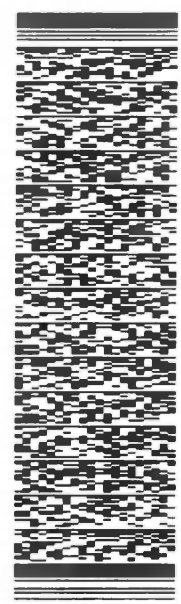
REF: SIREM/ABUS

NW 01
 PO 02

DEPT 8151

(US)

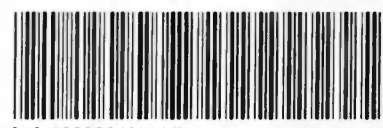
583J46AE49AE3



TRK# 7727 5660 0235

44203

9622 0019 0 (000 000 0000) 0 00 7727 5660 0235



240-188888 Waybill

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Eurofins Cleveland

180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



eurofins | Environment Testing

Client Information (Sub Contract Lab)				Sampler:	Lab PM: Cisneros, Roxanne	Camer Tracking No(s):	COC No: 240-171068.1	
Client Contact: Shipping/Receiving				Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: Tennessee	Page: Page 1 of 1	
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note):			Job #: 240-188888-1	
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601 Phone: 717-656-2300(Tel) Email:		Due Date Requested: 8/21/2023	TAT Requested (days):	Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)
Project Name: Plant Branch Aquifer Analysis		PO #:	WO #:					
Site:		Project #: 24028249	SSOW#:	Field Filtered Sample (Yes or No)				Total Number of Containers
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Perform MS/MSD (Yes or No)	60100/3050B (MOD) sulfur	Special Instructions/Note:
				Preservation Code:				
PZ-69I (34-35) (240-188888-1)		7/17/23	10:00 Central		Solid	X		1
PZ-71I (34-35) (240-188888-2)		7/17/23	10:00 Central		Solid	X		1
PZ-72I (29-30) (240-188888-3)		7/17/23	10:00 Central		Solid	X		1
PZ-73I (19-20) (240-188888-4)		7/17/23	10:00 Central		Solid	X		1
PZ-74I (42-43) (240-188888-5)		7/17/23	10:00 Central		Solid	X		1
PZ-75I (22-23) (240-188888-6)		7/17/23	10:00 Central		Solid	X		1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: min: 21 max: 3.0
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Login Sample Receipt Checklist

Client: Sirem, div of Geosyntec Consultants

Job Number: 240-188888-1

Login Number: 188888

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 07/22/23 11:14 AM

Creator: McBeth, Jessica

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 is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, 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?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	

APPENDIX E

Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium – Plant Branch – Ash Pond B



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

ALTERNATE SOURCE DEMONSTRATION BERYLLIUM, CADMIUM, COBALT, AND LITHIUM

PLANT BRANCH – ASH POND B (AP-B)

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

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Kennesaw, Georgia 30144

Project Number GW8862

February 2024



**ALTERNATE SOURCE DEMONSTRATION – BERYLLIUM, CADMIUM,
COBALT, AND LITHIUM**

Plant Branch
Ash Pond B (AP-B)

February 28, 2024

A handwritten signature in black ink, appearing to read "J. Ivanowski".

Joseph Ivanowski, P.G.
Senior Geologist

A handwritten signature in blue ink, appearing to read "Lauren Fitzgerald".

Lauren Fitzgerald, Ph.D., P.E.
Senior Engineer

Certification Statement

**Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium
Plant Branch
Ash Pond B
February 28, 2024**

This *Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium, Plant Branch Ash Pond B (AP-B)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically 257.95(g)(3)(ii), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6), by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



February 28, 2024

Lauren Fitzgerald
Georgia Professional Engineer, No. 048960

Date

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LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP-B	Ash Pond B
AP-BCD	Ash Ponds B, C, and D
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
DPT	direct push technology
FCPA	Former Coal Pile Area
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
GWPS	groundwater protection standard
HSRA	Hazardous Site Response Act
MCL	maximum contaminant level
mg/L	milligrams per liter
NC	notification concentration
pCi/L	picocuries per liter
RQSM	Reportable Quantities Screening Method
SEP	sequential extraction procedure
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard units
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

1. INTRODUCTION

1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant levels (SSL) of beryllium, cadmium, cobalt, and lithium above applicable groundwater protection standards (GWPS) detected in select monitoring wells located at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Ponds B, C, and D (AP-BCD). AP-BCD is a multiunit impoundment reported as a single unit under the Coal Combustion Residuals (CCR) Rule. However, based on groundwater flow directions, the monitoring wells demonstrating SSLs are located side-gradient to Ash Pond B (AP-B) specifically and downgradient of a former coal pile, situated adjacent to AP-B (**Figure 1**). Therefore, this document will primarily focus on evaluating AP-B rather than the larger multiunit AP-BCD. This ASD, through a thorough characterization of groundwater and aquifer solids data, provides a series of compelling lines of evidence demonstrating that the source of the observed SSLs is the former coal pile (removed in 2017), an alternate source from AP-B. The area including these SSL wells will be referred to herein as the Former Coal Pile Area (FCPA) (**Figure 2**).

Statistical analysis of the 2023 groundwater quality monitoring data identified the following SSLs of Appendix IV constituents at concentrations exceeding the applicable GWPS in FCPA monitoring wells¹:

- Beryllium (GWPS of 0.004 milligrams per liter [mg/L]): PZ-58I and PZ-60I
- Cadmium (GWPS of 0.005 mg/L): BRGWC-50 and PZ-60I
- Cobalt (GWPS of 0.014 mg/L): BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium (GWPS of 0.089 mg/L): PZ-60I

The purpose of this ASD is to provide an overview of the groundwater and aquifer solids characterization data in the vicinity of the FCPA to show that the source of SSL

¹ In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, a statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's Maximum Contaminant Level (MCL), if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

constituents observed in this area is the former coal pile and not AP-B. This ASD has been prepared pursuant to regulations in Title 40 Code of Federal Regulations (CFR) Part 257 Subpart D [the CCR Rule], specifically § 257.95(g)(3)(ii), which allows the owner or operator to “demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.” Moreover, this ASD also serves as an ASD under the Georgia regulations per Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates § 257.95(g)(3)(ii) of the CCR Rule by reference. For ease of reference herein, the CCR Rule regulations are cited within this report, in lieu of citing both sets of regulations.

1.2 Summary of Groundwater Investigation

Based on review of Site information, the SSLs of beryllium, cadmium, cobalt, and lithium identified in the detection and assessment monitoring wells listed above do not originate from a CCR source and are not associated with a release from AP-B. Instead, the SSLs are attributed to (i) migration of low pH contact water generated by infiltration of water through the former coal pile containing dissolved trace elements from the particulate coal and (ii) low pH groundwater conditions caused by and downgradient of the former coal pile facilitating mobilization of trace elements naturally occurring in the aquifer solids. The following lines of evidence support the conclusion that the SSLs of beryllium, cadmium, cobalt, and lithium in groundwater at the Site are due to infiltration and leaching of water through the former coal pile:

- Former Coal Pile Investigation:
 - Coal is a natural resource consisting of several minerals that are commonly enriched in trace elements including arsenic, beryllium, cadmium, cobalt, and lithium (Cook and Fritz, 2002; USGS, 2006; USEPA, 1978; Xie, et.al., 2023; Ward et. al., 2011; Harkness et.al., 2015). In addition, coal can contain various amounts of sulfide minerals that can undergo oxidation processes due to open storage of coal in piles. Oxidation of these minerals can occur in coal pile storage areas due to the infiltration of precipitation and use of dust suppression processes that introduce oxygenated water through the coal pile. This oxidation process can result in the potential release of trace elements and a decreased pH in coal contact water, which can further facilitate the dissolution of trace elements

(either from coal or the downgradient aquifer matrix). This can, in certain circumstances and geochemical conditions, cause impacts to downgradient groundwater (Cook and Fritz, 2002; Cravotta, 2008; Gammons, 2010). These processes are believed to have occurred at the Plant Branch former coal pile and have led to low pH in groundwater and exceedances of major and trace elements along the flow path of former coal pile contact water.

- In 2018, a Site investigation completed within and east of the former coal pile as part of Plant Branch decommissioning efforts identified arsenic and cadmium in groundwater at elevated concentrations (above the Hazardous Site Response Act [HSRA] notification concentrations [NC]) and attributed the former coal pile as the source for these constituents in groundwater. (GPC, 2018).
- AP-B Interstitial Water Versus FCPA Groundwater:
 - The concentration and distribution of SSL constituents in interstitial water samples indicates that interstitial water is not the source of these constituents observed in groundwater wells in the FCPA. For example, cadmium and cobalt are non-detect or detected at trace levels below the GWPS in recent piezometers (IW-B-3, IW-B-4, and IW-B-5) installed within the CCR in AP-B.
 - A gradient of high to low groundwater concentrations of SSL constituents should be observed to emanate from the source and migrate with groundwater flow downgradient. Groundwater flow from AP-B is generally toward Lake Sinclair and side-gradient of the FCPA. SSL constituent groundwater concentrations observed in the FCPA are higher than those observed in and downgradient of AP-B (with the highest concentrations in FCPA piezometers observed at the greatest distance from AP-B), which confirms the lack of groundwater concentration gradient for SSL constituents from AP-B to the FCPA wells.
 - Boron, an Appendix III constituent, is known to be a leading indicator of impacts from CCR and is commonly used as a tracer to identify the leading edge and direction of migration of CCR impacted groundwater. Boron concentrations are observed to be the lowest in the FCPA relative to other

locations downgradient of AP-BCD. In addition, statistical evidence (evaluated by histogram development) confirms different groundwater signatures in the FCPA relative to within and downgradient of AP-B.

- A refined flow regime analysis within the FCPA and areas downgradient of AP-B suggests that the observed exceedances of SSL constituents are east of AP-B and predominantly hydraulically downgradient of and the result of impacts from the former coal pile.
- Groundwater Geochemistry:
 - The geochemical signature of groundwater in the FCPA wells reflects low boron, low pH, and high sulfate, whereas the geochemical signature of groundwater in other areas of AP-B and other ash ponds at Plant Branch is different, reflecting higher boron, near-neutral pH, and low sulfate concentrations.
 - Stable oxygen and sulfur isotopes of sulfate ions in groundwater indicate that the source of sulfate in the FCPA is from pyrite oxidation of coal rather than pyrite combustion (i.e., sulfate released from coal ash). This confirms the impacts in the FCPA are the result of the former coal pile as opposed to AP-B.

1.3 Site Description

Plant Branch formerly operated as a coal-fired power plant that commenced power generation in 1965 and ceased in 2015. During operations, surface impoundments were utilized for the storage of CCR, including AP-BCD. AP-BCD is located on the southeast corner of the Plant (**Figure 1**) and, while three distinct impoundments, is regulated as a single unit under the CCR Rule. AP-BCD is not active and will be closed by removal of CCR, which will be placed in a new, permitted, on-Site CCR landfill.

AP-B is an approximate 52-acre ash pond on the east side of the regulated multiunit. The majority of the surface in AP-B (approximately 75 to 80%) is dry and vegetated with grass, brush, and medium pines. These areas are easily accessible by vehicle and by foot, with some portions capped with up to 3 feet of soil (non-CCR). A small portion of the pond is still used for stormwater management, with 5 to 10 acres being wet, depending on seasonal rainfall conditions.

In addition to CCR surface impoundments, a coal storage unit operated at Plant Branch, which bordered the northeastern portion of AP-B along its entire length (**Figures 2, 3a, and 3b**). A historical evolution of the former coal pile during Plant operations and following decommissioning is presented in **Figures 3a and 3b**. The first aerial photograph on **Figure 3a** shows the Site in 1960 before the Plant and former coal pile were constructed. In early 1965, the former coal pile began receiving coal in preparation for electricity generation. The aerial photograph from November 11, 1965, shows the former coal pile within the first year of Plant operations. As shown on the time progression of aerial figures presented on **Figures 3a and 3b**, the former coal pile expanded into an additional area northwest of the original footprint. This expanded area was constructed in 2012.

Former coal pile decommissioning was commenced by Southern Company in 2014, and the four coal-fired units at Plant Branch were retired the following year (GPC, 2018). Subsequently, the former coal pile was removed. **Figure 3b** shows that the majority of coal was removed by October 15, 2015, with complete coal removal by 2017.

The current condition of the former coal pile area is shown in the most recent aerial photograph in **Figure 3b**. Beginning in 2018, the expanded portion of the former coal pile area was retrofitted for activities including construction of a water treatment plant to support the ash pond closure activities. In 2023, a layer of lime (for geotechnical stabilization of the soil) and 12 inches of crushed stone was installed along the remaining portion of the original footprint of the former coal pile to complete restoration of the decommissioned former coal pile. This area is currently used for staging and storage of rock aggregate for onsite CCR landfill construction activities.

1.3.1 Former Coal Pile Investigations

Prior to decommissioning, a field investigation was completed to evaluate the approximate extent of coal in the former coal pile, and the findings are presented in **Figure 4**. Boring logs from these field investigation activities are provided in **Appendix A**. Based on approximately 17 borings, the former coal pile thickness ranged from 1 to 35 feet. The thickest locations of coal were observed on the eastern side, closest to Plant operations. In the southern portion, closest to the FCPA, coal thickness ranged from approximately 3 to 5 feet. During the investigation, the water table was observed above the bottom of the coal, indicating contact between the former coal pile and the water table and notably, an elevated hydraulic head beneath the former coal pile. These locations

were noted in borings obtained from areas within the former coal pile that were closest to the former Plant operations.

In February 2018, as part of the decommissioning of the Plant, Resolute Environmental & Water Resources Consulting, LLC (Resolute) completed a direct push technology (DPT) investigation for pH and conductivity and collected limited groundwater samples in the vicinity of the former coal pile. The locations and results are presented in **Figure 5**. Groundwater was sampled from two installed groundwater monitoring wells (C1-06 and C2-02). C1-06 contained concentrations of arsenic and cadmium exceeding their applicable HSRA NCs. On March 16, 2018, a HSRA Release Notification was submitted to Georgia Environmental Protection Division (GA EPD) to document that the groundwater in this well contained elevated concentrations of arsenic (0.013 mg/L; NC of 0.010 mg/L) and cadmium (0.0108 mg/L; NC of 0.005 mg/L). On November 15, 2018, GA EPD prepared an inspection report, recommendation memorandum, and Reportable Quantities Screening Method (RQSM) score sheet. This report indicated the presence of a known detection of arsenic and cadmium in groundwater. The groundwater pathway was scored at 8.1 on the RQSM score sheet, which did not exceed the threshold of 10. In addition, the Site was scored for an on-Site exposure of arsenic detected in soils. This pathway was scored at a 0, which did not exceed the threshold of 20. Based on this information, on November 16, 2018, GA EPD determined that the property would not be listed on the Hazardous Site Inventory (GPC, 2018; GA EPD, 2018). The response from GA EPD is provided in **Appendix B**.

1.4 Groundwater Monitoring and Basis of Statistically Significant Levels

The monitoring well network was installed with a conservative approach assuming radial to semi-radial flow from AP-BCD and therefore, included side-gradient areas located adjacent to and downgradient of the former coal pile. Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-BCD based on statically significant increases (SSI) of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). Statistical analyses of the Appendix IV assessment monitoring groundwater data collected in March 2020 identified SSLs for cobalt and cadmium at concentrations exceeding applicable GWPS. The SSLs of beryllium and lithium were identified following statistical analysis of the January 2023 and August 2023 groundwater data, respectively.

Pursuant to § 257.96, Georgia Power initiated an assessment of corrective measures (ACM) program for AP-BCD on July 9, 2020, and subsequently submitted the

Assessment of Corrective Measures Ash Pond BCD (ACM Report) (Golder, 2020) on December 4, 2020. Subsequent groundwater characterization activities have been performed for the individual ash ponds resulting in a refined understanding of AP-BCD potential impacts and flow paths.

Since the ACM was initiated, additional assessment monitoring wells and piezometers have been installed to define groundwater flow direction and gradients as well as delineate the horizontal and vertical extents of the beryllium, cadmium, cobalt, and lithium SSLs in the FCPA. Further, three piezometers (IW-B-3 through IW-B-5) were installed in 2023 within the footprint of AP-B to provide additional information on the geochemical characteristics of AP-B interstitial water. These new piezometers screened within the CCR in AP-B supplemented the two existing interstitial piezometers installed in the northern and southern portions of AP-B. The current groundwater monitoring well and piezometer networks installed downgradient/side-gradient of AP-B, and the network of AP-B interstitial piezometers, are shown on **Figure 2**. Construction logs for monitoring wells and piezometers are provided in **Appendix A**.

In addition to the Appendix IV constituents identified as SSLs, GWPS exceedances of other Appendix IV constituents were observed during a comprehensive sampling event completed in February 2023 for all monitoring wells and piezometers in the FCPA. While not SSLs, arsenic (up to 0.02 mg/L), selenium (up to 0.1 mg/L), and combined radium (up to 8 picocuries per liter [pCi/L]) exceedances have been noted in the FCPA. The observed constituents occur naturally in coal.

The analytical data obtained from the additional wells and piezometers installed in the FCPA and within the footprint of AP-B along with the supplemental analytical analyses in the FCPA suggest that the identified SSLs are not associated with groundwater flow from AP-B. To support this observation, characterization of the aquifer solids, geochemical and statistical evaluations of the analytical data, and collection of stable isotope data were completed. Compilation of these various lines of evidence (see further discussion in Section 2) support the conclusion that the SSLs of beryllium, cadmium, cobalt, and lithium (and other elevated concentrations of trace elements identified in the FCPA) observed in the vicinity of AP-B are due to impacts from the former coal pile and are not associated with CCR in AP-B.

2. ALTERNATE SOURCE DEMONSTRATION

Based on review of Site information, the SSLs of beryllium, cadmium, cobalt, and lithium identified in monitoring wells BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I are not associated with a release from AP-B. Instead, these SSLs are attributed to historical infiltration of water through the former coal pile and into the underlying groundwater. This section documents the following lines of evidence to support this conclusion:

- Former Coal Pile Investigations
 - Low pH conditions (3.68 to 5.7 standard units [s.u.] in monitoring wells and piezometers screened in the impacted zone in 2023) and elevated trace element concentrations are observed in the FCPA wells suggesting that the impacts are from former coal pile contact water as opposed to originating from CCR stored in AP-B (pH 5.8 to 8.4 s.u. in 2023).
 - In 2018, a Site investigation completed as part of the Plant decommissioning identified the former coal pile as the source of arsenic and cadmium in groundwater and notified GA EPD of a release under the HSRA.
- Groundwater analytical data in the FCPA are not consistent with AP-B interstitial water results based on the following: (i) the analytical characterization of the AP-B interstitial water samples compared to FCPA groundwater; (ii) histogram development for SSL constituents and select Appendix III constituents (CCR tracers); and (iii) an evaluation of concentrations gradients and the groundwater flow regime.
- Groundwater geochemistry and analytical results observed in the FCPA are not consistent with a CCR signature.
- Stable isotopes of sulfate are indicative of sulfate generation from pyrite oxidation from coal as opposed to a combustion signature that would be indicative of sulfate generation from ash.

The subsections below provide additional information on each of these lines of evidence. Laboratory reports for data supporting these lines of evidence are provided in **Appendix C**.

2.1 Former Coal Pile Investigations Indicate Release to Groundwater

Coal is a natural material consisting of several minerals that are commonly enriched in trace elements including arsenic, beryllium, cadmium, cobalt, and lithium (Cook and Fritz, 2002; USGS, 2006; USEPA, 1978; Xie, et. al., 2023; Ward et. al., 2011; Harkness et.al., 2015). In addition, depending on the source, coal may contain varying quantities of sulfide minerals that can undergo oxidation processes due to open storage of coal in piles. Under certain conditions, oxidation of these minerals may occur in coal pile storage areas due to the infiltration of precipitation and use of dust suppression processes that introduce oxygenated water through the coal pile. This oxidation process can release metalloids and trace elements and can cause the pH of water in contact with coal to decrease to conditions below approximately 5 – 5.5 s.u. This creates unique geochemical conditions, specifically low pH, that can facilitate further dissolution of trace elements (either from coal or naturally occurring elements precipitated with iron and manganese oxides of an aquifer matrix) that can migrate to groundwater (Cook and Fritz, 2002).

Consideration of these characteristics of former coal pile contact water results in two main mechanisms of impacts from the former coal pile at Plant Branch to groundwater: (i) migration of low pH water generated by infiltration of water through the former coal pile causing oxidation of sulfide minerals and dissolution of trace elements associated with coal; and (ii) low pH groundwater conditions downgradient of the former coal pile further facilitating mobilization of trace elements naturally occurring in the aquifer solids.

In the FCPA, exceedances of trace elements from coal including SSL constituents along with low pH conditions support migration of former coal pile contact water into the FCPA monitoring wells and piezometers (**Table 1**). Mobilization of these SSL constituents in the FCPA could also be due to dissolution of naturally occurring iron- and/or manganese-bearing minerals in the aquifer solids as a result of these unique geochemical conditions, specifically low pH. This is supported by high concentrations of dissolved iron and manganese observed in FCPA wells with SSLs (**Table 1**) and the Sequential Extraction Procedure (SEP) data (**Table 2**), suggesting substantial levels of the SSL constituents were associated with solid phase metal oxides in both upgradient and FCPA locations.

In addition, in 2018, a Site investigation was completed within the footprint of the former coal pile as part of Plant Branch decommissioning efforts that confirmed impacts of trace elements and low pH from the former coal pile to groundwater primarily on the eastern side of the former coal pile (not adjacent to AP-B) (see further discussion in Section 1.3.3). As part of this effort, groundwater was collected from various DPT locations for

pH and conductivity and two newly installed monitoring wells (C1-06 and C2-02). Water quality observations indicated low pH conditions in numerous locations around the former coal pile (as low as 3.5 s.u.; **Figure 5**). Further, the findings of this investigation identified arsenic and cadmium in groundwater above the HSRA NC and CCR GWPS, confirming a release of trace elements that are also identified as Appendix IV CCR constituents from the former coal pile to groundwater (GPC, 2018). While these groundwater conditions did not result in the Site being placed on the HSRA Site Inventory (GA EPD, 2018), it did show impacts from former coal pile contact water to groundwater supporting an alternate source of Appendix IV CCR constituents to groundwater other than AP-B.

2.2 AP-B Interstitial Water Data and Hydraulic Gradients Inconsistent with Migration of CCR Impacts

This section presents an evaluation and comparison of select Appendix III and SSL constituent analytical data collected from piezometers screened in the CCR material of AP-B relative to FCPA monitoring well data. It illustrates that groundwater concentrations in the FCPA are not consistent with the groundwater characteristics of interstitial water in AP-B. Histogram development for SSL constituents and select Appendix III constituents in the two spatial areas support this conclusion. Finally, a refined evaluation of the hydraulic gradient and flow regime proximal to AP-B and the FCPA shows that locations with the highest SSL constituent concentrations are primarily hydraulically downgradient of the former coal pile and side-gradient to AP-B.

2.2.1 Concentrations of SSL and Appendix III Constituents in AP-B Interstitial Water Inconsistent with Concentrations Observed in the FCPA

AP-B interstitial water samples were collected from the various piezometers screened within the CCR material of AP-B between 2019 and 2023 and analyzed for Appendix III and select Appendix IV constituents² (**Table 3**). The concentrations and spatial distribution of Appendix III constituents, beryllium, cadmium, cobalt, and lithium in AP-B interstitial water are inconsistent with groundwater impacts observed in the FCPA.

Beryllium, cadmium and cobalt concentrations were either non-detect or detected at trace levels below the GWPS in interstitial water from the AP-B piezometers. This is in contrast

² The samples were not analyzed for beryllium or lithium in 2023 as a beryllium and lithium SSL was not yet identified.

to the concentrations of these SSL constituents, which exceed the GWPS in the wells and piezometers in the FCPA (**Table 1**), suggesting that AP-B interstitial water is not the source of the SSLs observed in the FCPA. Only one sample was collected from an interstitial piezometer and measured for lithium (IW-B-2 in October 2019). The lithium detection was observed to be above the GWPS, however, as discussed below, a gradient of lithium concentration from AP-B to the FCPA is not observed and therefore, this data does not support AP-B as the source of SSL constituents in the FCPA.

Boron is an Appendix III constituent commonly used as a tracer to indicate impacts to groundwater downgradient of a CCR unit, including the leading edge and direction of impact migration. The spatial distribution of boron concentrations in the vicinity of AP-B and across AP-BCD (inset only) is provided on **Figure 6**. These data indicate boron concentrations in groundwater are lowest in the FCPA (typically <0.5 mg/L) relative to locations within and downgradient of AP-BCD (typically >1 mg/L). The wells with the highest concentrations of SSL constituents correspond with boron concentrations below 0.5 mg/L. In nearby locations where SSL constituents are non-detect (BRGWC-52I and PZ-44), boron concentrations are 1.87 mg/L and 1.35 mg/L, respectively. These data indicate (i) little or no impacts from AP-B in the FCPA and (ii) clearly differentiate two sources of boron, suggesting that boron concentrations in the FCPA wells reflect groundwater from the former coal pile.

To visually assess similarities and differences in the analytical data, histograms were developed for select Appendix III and SSL constituents from monitoring wells and piezometers in the FCPA relative to the AP-B area (BRGWC-25I, BRGWC-52I, along with the five interstitial wells within AP-B). The results of this evaluation are presented in **Figure 7**. Review of the histograms indicates the difference in concentrations of the evaluated constituents between the wells and piezometers in the FCPA grouping and AP-B wells. The FCPA is characterized by low boron and pH along with high concentrations of sulfate and the SSL constituents, which is opposite of what is observed in the AP-B wells, confirming sources of these constituents are likely not the same in the two areas.

2.2.2 Concentration Gradients of SSL Constituents Not Observed from AP-B

To further evaluate the influence of the former coal pile on beryllium, cadmium, cobalt, and lithium groundwater concentrations in the FCPA, a spatial evaluation of concentration gradients for these constituents was completed through the generation of iso-concentration contours (**Figure 8**; data provided in **Table 1**). This figure illustrates that concentrations are highest directly downgradient of the former coal pile without a

gradient of high to low concentrations from AP-B toward the FCPA. If impacts were from AP-B, a high to low concentration gradient would be expected. Specifically, PZ-58I which is closer to AP-B has lower concentrations of the four SSL constituents relative to PZ-60I, which is further away from AP-B. In fact, the highest concentration of cobalt is observed in the location furthest and side-gradient of AP-B (PZ-64I); as discussed further below, this location is hydraulically downgradient of the former coal pile.

2.2.3 Hydraulic Gradients Inconsistent with AP-B Impacts Relative to the Former Coal Pile

Potentiometric data recorded in August 2023 and the associated flow regime were reviewed and refined from the previously used 10-ft isometric interval to a 1-ft isometric interval. This analysis was performed to evaluate the potential sources of SSLs in the FCPA. Based on review of the 1-ft interval isometric potentiometric surface map presented on **Figure 9**, groundwater flow directions are generally to the southeast. Therefore, the areas with highest constituent concentrations are predominantly downgradient of the former coal pile and side-gradient of AP-B. Based on slug tests and the shape of the potentiometric surface map, there is no indication of preferential flow pathways to the FCPA or downgradient of AP-B.

While the edge of the cobalt plume shown on **Figure 9** extends to PZ-63I (a location that would be considered hydraulically downgradient of the current AP-B boundary), potential dispersion and/or minor changes in the groundwater flow direction with time and seasonality likely resulted in broadening of observed cobalt impacts in the FCPA as opposed to cobalt impacts being associated with AP-B. Potential dispersion effects are reasonable in the FCPA since the AP-B dike transitions to the native or fill material in the vicinity of FCPA and the land surface is relatively flat in that area. In addition, there is a likelihood for historical radial groundwater flow from beneath the former coal pile due to the groundwater mounding introduced by dust suppression activities during former coal pile operations. This could also contribute to broadening of the observed SSL impacts.

2.3 Geochemical Groundwater Data Consistent with a Former Coal Pile Signature

Analytical data indicate a unique signature for groundwater in the FCPA (**Table 1**). Specifically, monitoring wells and piezometers in the FCPA generally have lower pH (pH as low as 3.99 s.u. in PZ-58I in August 2023) and higher sulfate concentrations (as high

as 2,550 mg/L in PZ-64I in August 2023) compared to piezometers installed within the CCR in AP-B and other sampled locations proximal to AP-B. This is particularly evident in wells screened in the transition zone (near the interface of the partially weathered rock and bedrock) where beryllium, cadmium, cobalt, and lithium exceedances of the GWPS are observed.

Based on a review of the Site groundwater quality data, it is evident that the lower pH levels in the groundwater at the FCPA are inconsistent with pH levels observed within and downgradient of AP-B, as well as Ash Pond C (AP-C) and Ash Pond D (AP-D). Rather, low pH is indicative of impacts downgradient of the former coal pile, as illustrated in **Figure 10**. In 2018, Resolute completed a DPT investigation in the vicinity of the former coal pile to assess select constituents in groundwater including pH. These data have been combined with data collected from interstitial, detection, and assessment wells in 2023 to provide a spatial evaluation of pH conditions within, side-gradient, and downgradient of AP-B. **Figure 10** indicates that the lowest observed pH conditions are downgradient of the former coal pile. In contrast, pH values within the AP-B interstitial water are significantly higher and range from 5.8 to 8.4 s.u.

Figure 11 provides a visual and statistical summary of pH measurements collected between 2018 and 2023 from the AP-B interstitial piezometers, wells near AP-B, wells in the FCPA, and locations in/around the former coal pile (statistics backup files provided in **Appendix D**). This analysis indicates the highest pH values are in the interstitial water, while the lowest pH values are in the vicinity of the former coal pile. The pH values observed in and proximal to AP-B are statistically different from those observed in the FCPA and former coal pile, as shown in **Figure 11**. In contrast, the range of low pH values observed in the FCPA is statistically similar to the range of pH observed at the former coal pile, indicating the observed impacts in the FCPA are attributed to the former coal pile as opposed to AP-B.

Similar to low pH, high sulfate concentrations in groundwater are a defining characteristic in the FCPA relative to other locations downgradient of AP-B, as well as AP-C and AP-D (**Figure 12**). **Figure 12** generally indicates that concentrations of sulfate downgradient of AP-BCD are below 500 mg/L. Whereas, in the FCPA, concentrations of sulfate are observed up to 2,550 mg/L in PZ-64I, based on the August 2023 groundwater data (**Table 1**). The spatial distribution of sulfate concentrations suggests that higher levels of sulfate are observed directly downgradient of the former coal pile and are likely associated with impacts from the former coal pile as opposed to AP-B. Coal often

contains sulfide minerals, which can be oxidized due to infiltration of precipitation or dust suppression water, resulting in increased sulfate, lower pH in groundwater, and mobilization of metalloids and trace elements (as observed in FCPA wells) (Cook and Fritz, 2002, Cravotta, 2008, Gammons, 2010, Nordstrom and Alpers, 1999).

2.4 Stable Isotopes of Sulfate Indicate a Pyrite Oxidation Signature in the FCPA

As discussed in Section 2.3, the FCPA is characterized by high sulfate concentrations (up to 2,550 mg/L). To evaluate the source of sulfate in groundwater, a stable isotopic evaluation was performed for sulfur ($\delta^{34}\text{S}$) and oxygen ($\delta^{18}\text{O}$) from sulfate. Stable isotope analysis is based on the preferential fractionation that occurs with stable isotopes under specific climatic conditions (Peterson and Fry, 1987). The ratio of heavy to light isotopes can be used to evaluate the potential origin of a constituent. Because sulfate (SO_4) was identified as a key parameter that distinguishes the FCPA wells from the other areas near AP-B, the stable isotopes of sulfur and oxygen in groundwater were analyzed to evaluate the sources of sulfate in the target area of interest.

Key potential sources of sulfate at the Site include the following:

- sulfate from CCR (coal combustion);
- sulfate from the oxidation of pyrite in coal;
- sulfate from the oxidation of pyrite in native soils; and
- weathering or evaporation of sulfur containing minerals.

Sulfate generated from a combustion source (e.g., from CCR) is typically characterized by higher $\delta^{18}\text{O}$ (heavier isotopic signature) due to the influence from atmospheric oxygen. In contrast, sulfate generated from an oxidation source (e.g., oxidation of pyrite in coal) is typically characterized by lower $\delta^{18}\text{O}$ (lighter isotopic signature) due to the influence of oxygen from precipitation or groundwater. Weathering or evaporation that result in sulfate reduction are commonly important and often shift $\delta^{34}\text{S}$ to more positive (heavier isotopic signature) values. Stable isotopes were evaluated to see if the signatures indicated a difference between pyrite oxidation from coal and coal combustion (CCR). Details regarding this analysis are provided in **Appendix E**.

In June 2023, groundwater, surface water, and interstitial water samples were collected at the following sample locations for analysis of stable isotopes of sulfur and oxygen:

- AP-BCD Locations
 - BRGWA-23S, BRGWC-47, BRGWC-45, PZ-44, BRGWC-25I, and BRGWC-52I
- Locations Downgradient of the FCPA
 - PZ-58I, PZ-59I, PZ-60I, PZ-63I, PZ-65I, PZ-66I, and BRGWC-50
- AP-B Interstitial Water or Surface Water Locations
 - SW-B-1, DWB-1, and IW-B-1

Sample locations are shown on **Figure 13**; results of the analysis are illustrated on **Figure 14**.

The stable isotope results reveal that samples from the FCPA have a unique isotopic composition driven by sulfate derived from pyrite oxidation (i.e., lower $\delta^{18}\text{O}$ consistent with a former coal pile signature) with low weathering/evaporation (i.e., low $\delta^{34}\text{S}$). Other Site-wide samples had an isotopic composition more representative of sulfate reduction (i.e., combustion or weathering processes) relative to the FCPA. These results suggest that the source of sulfate in the FCPA is the former coal pile and further corroborates that the beryllium, cadmium, cobalt, and lithium observed in the FCPA are derived from the former coal pile and not from a release from AP-B.

3. ALTERNATIVE MONITORING STRATEGY FOR AP-B

This ASD demonstrates that the geochemical signature in groundwater monitoring wells in the FCPA is (i) a distinct and separate signature (primarily low pH and high sulfate) from monitoring wells at AP-BCD and (ii) originates from the former coal pile. Data from multiple years of monitoring at the FCPA and across AP-BCD demonstrates that SSLs of beryllium, cadmium, cobalt, and lithium east of AP-B are derived from a source other than CCR. A revised monitoring strategy is necessary to meet the groundwater monitoring performance standards of the CCR Rule, specifically monitoring wells and piezometers in the FCPA are recommended to be removed from the monitoring network since they do not “accurately represent the quality of groundwater passing the waste boundary of the CCR unit.” In addition to the proposed removal of monitoring wells and piezometers from the current detection and assessment network, Georgia Power recommends including PZ-44 in the AP-B detection monitoring network. Georgia Power also recommends continued groundwater monitoring and corrective action, if warranted, in the FCPA to be regulated by an alternate program of GA EPD since the impacts are from a source other than the CCR unit.

4. CONCLUSIONS

The following lines of evidence support the conclusion that the SSLs of beryllium, cadmium, cobalt, and lithium identified in PZ-51I, PZ-58I, PZ-60I, PZ-61I, and BRGWC-50 along with other monitoring wells and piezometers of the FCPA are not consistent with an impact from AP-B but rather attributed to impacts from the former coal pile:

- Former Coal Pile Investigation:
 - Under certain, site-specific conditions at Plant Branch, groundwater was likely impacted by former coal pile contact water, which has the potential to contain trace elements and be characterized by a low pH generated through the oxidation of coal on the ground surface.
 - In 2018, a Site investigation completed within and east of the former coal pile as part of Plant Branch decommissioning efforts identified arsenic and cadmium in groundwater at elevated concentrations (above the HSRA NCs) and attributed the former coal pile as the source for these constituents in groundwater (GPC, 2018).
- AP-B Interstitial Water Versus FCPA Groundwater:
 - The concentration and distribution of SSL constituents in interstitial water samples. For example, cadmium and cobalt are non-detect or detected at trace levels below the GWPS in recent piezometers (IW-B-3, IW-B-4, and IW-B-5) installed within the CCR in AP-B. This indicates that interstitial water is not the source of these constituents observed in groundwater wells in the FCPA.
 - SSL constituent groundwater concentrations observed in the FCPA are higher than those observed in and downgradient of AP-B (with the highest concentrations in FCPA piezometers observed at the greatest distance from AP-B), which confirms the lack of groundwater concentration gradient for SSL constituents from AP-B to the FCPA wells.
 - Boron, an Appendix III constituent and CCR tracer, concentrations are observed to be the lowest in the FCPA relative to other locations

downgradient of AP-BCD. In addition, statistical evidence (evaluated by histograms) confirms different groundwater signatures in the FCPA relative to within and downgradient of AP-B.

- A refined flow regime analysis within the FCPA and areas downgradient of AP-B suggests that the observed exceedances of SSL constituents are predominantly hydraulically downgradient of and the result of impacts from the former coal pile.
- Groundwater Geochemistry:
 - The analytical data and geochemical signature (primarily low pH and high sulfate) of wells in the FCPA are inconsistent with conditions within and downgradient of AP-B.
 - Stable oxygen and sulfur isotopes of sulfate indicate that the source of sulfate in the FCPA is from pyrite oxidation of coal rather than pyrite combustion (i.e., sulfate released from CCR). This further supports that the impacts in the FCPA are the result of the former coal pile as opposed to AP-B.

During GA EPD's review of this ASD, detection and assessment monitoring wells in the FCPA will continue to be sampled as part of the ongoing assessment monitoring program for AP-BCD. Georgia Power will work with GA EPD to regulate elevated concentrations related to the former coal pile outside of the CCR regulations since the impacts are from a source other than the CCR unit.

5. REFERENCES

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TABLES

Table 1
 Summary of Groundwater Analytical Data
 Plant Branch AP-BCD, Putnam County, Georgia

Well ID:	BRGWA-2S	BRGWA-2I	BRGWA-5S	BRGWA-5I	BRGWA-6S	BRGWA-23S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	
Sample Date:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/24/23	8/24/23	8/24/23	8/22/23	8/22/23	8/24/23	
Parameter													
APPENDIX III	Boron	0.00738 J	0.00649 J	0.00764 J	0.0073 J	0.00611 J	0.039	1.95	1.25	1.34	2.05	1.13	0.0444
	Calcium	5.02	12.6	14.9	14.3	3.79	5.95	69.6	74.4	71.4	414	45.1	34
	Chloride	2.14	1.9	3.37	3.53	2.34	2.41	8.47	4.81	6.08	3.35	4.3	16.5
	Fluoride	0.229	0.267	0.277	0.289	0.0787 J	0.114	0.25	0.302	0.0849 J	0.116	0.0477 J	0.185
	pH	5.97	6.91	6.09	6.36	6.27	5.89	6.14	6.01	4.48	6.44	5.98	5.71
	Sulfate	0.526	6.85	0.54	1.83	0.467	11.3	174	94.5	288	1,250	256	114
	TDS	36	81	73	80	30	70	354	309	418	1,920	412	242
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.0135	0.0068	0.0352	0.0245	0.0143	0.0434	0.0271	0.0151	0.0174	0.04	0.0243	0.0524
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00113	< 0.0002	< 0.0002	< 0.0002
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	0.00921 J	< 0.003	0.00472 J	0.00701 J	0.0132	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.000707 J	0.000707 J	0.000327 J	0.000474 J	< 0.0003	< 0.0003	0.00343	0.00601	0.00724	0.00183	< 0.0003	0.00221
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	0.0209	< 0.003	< 0.003	< 0.003	0.00596 J	< 0.003	< 0.003	0.00349 J	0.0253	0.00392 J	< 0.003
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	0.00169	< 0.0002	0.000953 J	< 0.0002	< 0.0002	0.00141	< 0.0002	< 0.0002	0.00111	< 0.0002	0.000356 J
	Comb. Radium 226/228	0.592 U	0.857 U	1.31 U	1.36	1.89 U	2.16	1.21 U	2.23	3.02	2.71	2.33	0.607 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.21	< 0.0015
Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2
	Ferrous Iron	--	--	--	--	--	0	0	0	6.5	0.5	--	0
	Iron	0.0513 J	0.0904 J	0.263	0.0953 J	< 0.033	0.0877 J	0.101	0.0749 J	23.3	0.992	0.0935 J	0.16
	Magnesium	4.66	7.27	6.25	9.41	3.48	3.18	23.4	6.53	8.02	63.4	29.7	16.4
	Manganese	0.0283	0.0145	0.0105	0.00104 J	0.0012 J	0.00405 J	2.14	0.458	1.38	1.4	0.00207 J	0.211
	Nitrate	0.218	< 0.033	0.203	0.266	0.646	0.212	< 0.033	0.0657 J	0.297	< 0.033	0.184	< 0.033
	Potassium	0.415	5.25	0.435	0.933	0.607	1.81	4.79	4.9	9.76	6.06	2.03	3
	Sodium	3.09	5.26	3.48	4.69	2.11	8.63	20.6	16.3	18.2	30.7	26.1	14.5
Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	

Notes:

- = Parameter was not analyzed
- < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
- J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
- TDS = total dissolved solids
- U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
- Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
- Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
- The pH value presented was recorded at the time of sample collection in the field.

Table 1
 Summary of Groundwater Analytical Data
 Plant Branch AP-BCD, Putnam County, Georgia

Well ID:	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51I	PZ-51D	PZ-58I	PZ-60I	PZ-61I	PZ-63I	PZ-64I	
Sample Date:	8/24/23	8/23/23	8/24/23	8/23/23	8/23/23	8/23/23	8/24/23	8/23/23	8/23/23	8/22/23	8/23/23	8/23/23	
Parameter													
APPENDIX III	Boron	0.689	0.372	1.87	1.35	0.285	0.43	0.0387	0.429	0.3	0.331	0.706	0.00834 J
	Calcium	347	214	37.4	26.5	211	217	120	162	294	209	56.8	363
	Chloride	4.67	14.8	6.28	6.83	10.1	9.43	22.2	11	25	15.7	6.81	36.5
	Fluoride	0.243	0.499	0.188 J	0.195	0.193	0.0744 J	0.395	1.1	1.32	0.188	0.252	0.135
	pH	5.69	5.12	6.24	6.11	6.09	5.37	7.07	3.99	4.58	5.16	5.68	5.21
	Sulfate	1,300	1,290	150	49.5	854	1,200	346	949	1,830	1,440	294	2,550
	TDS	1,970	2,180	281	184	1,360	1,860	638	1,570	2,880	2,220	503	4,640
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	0.0038 J	< 0.002	< 0.002	< 0.002	0.003 J	< 0.002	0.00408 J	< 0.002	< 0.002	< 0.002	< 0.002	0.00459 J
	Barium	0.028	0.0166	0.0415	0.0555	0.0312	0.0149	0.0448	0.0173	0.0232	0.0127	0.0221	0.0177
	Beryllium	< 0.0002	0.00867	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002	0.0328	0.067	0.00145	< 0.002	0.00248
	Cadmium	< 0.0003	0.00744	< 0.0003	< 0.0003	< 0.0003	0.000679 J	< 0.0003	0.00453	0.0149	0.000496 J	< 0.0003	< 0.0003
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	< 0.0003	1.38	0.000317 J	< 0.0003	0.00991	0.0259	0.000427 J	0.556	3.79	0.757	0.0309	10.6
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00086 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	0.0532	0.0393	0.0131	0.0056 J	0.0232	0.0221	0.00667 J	0.0468	0.0936	0.0106	0.00516 J	0.0126
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	0.000296 J	< 0.0002	0.000782 J	< 0.0002	< 0.0002	< 0.0002	0.00142	< 0.0002	< 0.0002	< 0.0002	0.000539 J	< 0.0002
	Comb. Radium 226/228	2.39	1.55	6.36	0.477 U	2.12	5.22	1.27	3.71	4.48	0.868 U	2.31	0.877 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00494 J	0.0043 J	0.00483 J	< 0.0015	0.0163
Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	27.3	11	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	27.3	11	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9
	Ferrous Iron	0	0	1	0	4	0	1.5	7	1.5	0.5	1.5	1.75
	Iron	0.291	0.409	0.956	0.0501 J	4.37	0.136	1.82	52.8	1.6	0.348	1.18	3
	Magnesium	133	142	18.1	10.1	73.3	133	26.1	85.8	193	172	37.7	261
	Manganese	0.00873	103	0.549	0.478	2.56	49.9	1.34	31.4	175	107	6.97	380
	Nitrate	0.117	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
	Potassium	11.9	10.6	4.65	2.44	12	11.2	11.3	7.79	13.8	6.3	7.62	13.5
	Sodium	44.2	49.9	19	11.3	39.5	43.6	52.2	34.7	65.3	59.6	18.5	75.3
Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	0.192	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	

Notes:

- = Parameter was not analyzed
- < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
- J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
- TDS = total dissolved solids
- U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
- Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
- Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
- The pH value presented was recorded at the time of sample collection in the field.

Table 2
Sequential Extraction Procedure Data Summary
Plant Branch AP-B, Putnam County, Georgia

Analyte	SEP Fraction	BRGWA-2S	BRGWA-2S	BRGWA-5S	BRGWA-5S	BRGWA-6S	BRGWA-6S	BRGWC-50	BRGWC-50	PZ-51S
		39 FT BGS	43 FT BGS	32 FT BGS	38 FT BGS	42 FT BGS	48 FT BGS	59 FT BGS	63-63.5 FT BGS	40-45 FT BGS
		5/13/2020	5/13/2020	5/14/2020	5/14/2020	5/14/2020	5/14/2020	5/15/2020	5/15/2020	3/19/2021
		Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Downgradient (AP-B)	Downgradient (AP-B)	Downgradient (AP-B)
Beryllium	Exchangeable	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbonate	ND	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Amorphous Fe/Mn Oxides	0.16 J	0.15 J	0.089 J	0.073 J	0.049 J	0.066 J	0.20 J	ND	0.055 J
	Crystalline Fe/Mn Oxides	0.77	0.47	0.25 J	0.21 J	0.45	0.20 J	0.32	ND	0.44
	Organic-Bound	ND	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Sulfides	0.29 J	0.16 J	0.082 J	0.075 J	0.15 J	0.11 J	0.23 J	ND	0.22 J
	Residual	ND	ND	0.35	0.33	0.19 J	ND	1.6	0.94	0.44
	Sum of Steps	1.2	0.78	0.77	0.69	0.84	0.38	2.3	0.94	1.2
Total	0.66	0.46	0.67	0.60	0.66 J	0.31 J	1.9	0.73	1.2	
Cadmium	Exchangeable	ND	ND	ND	ND	ND	ND	0.11 J	ND	ND
	Carbonate	ND	ND	ND	ND	ND	ND	0.084 J	ND	ND
	Amorphous Fe/Mn Oxides	0.016 JB*	ND *	0.021 JB*	0.023 JB*	0.11 JB*	0.094 JB*	0.10 JB*	0.028 JB*	0.015 JB
	Crystalline Fe/Mn Oxides	ND	ND	0.018 J	ND	ND	0.022 J	0.36	ND	ND
	Organic-Bound	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sulfides	ND L	ND	ND	ND	ND L	ND	ND	ND	ND
	Residual	0.21 J	0.59 J	0.17 J	ND	0.49	0.28 J	0.047 J	0.12 J	ND
	Sum of Steps	0.22 J	0.59	0.21 J	0.023 J	0.60	0.39	0.70	0.15 J	0.015 J
Total	1.4 J	1.6 J	2.2	2.20	1.70	0.66 J	0.72	1.4	ND	
Cobalt	Exchangeable	ND	ND	ND	ND	ND	ND	1.60 J	ND	ND
	Carbonate	ND	ND	ND	ND	ND	ND	1.10 J	ND	ND
	Amorphous Fe/Mn Oxides	14.0	14.0	4.9	6.0	19.0	21.0	2.60 J	ND	2.3 J
	Crystalline Fe/Mn Oxides	6.5	13.0	2.7 J	2.9 J	9.9	9.9	1.50 J	0.30 J	2.5 J
	Organic-Bound	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Sulfides	8.3	5.2	4.0	5.4	5.2	5.6	4.50 J	8.90 J	5.9
	Residual	8.1 J	28.0 J	18.0	15.0	8.7 J	16.0 J	0.31 J	1.20 J	6.4 J
	Sum of Steps	36.0	60.0	29.0	30.0	43.0	53.0	12.0	10.0	17.0
Total	72.0	54.0 J	36.0	43.0	58.0	12.0 J	18.0	64.0	11.0 J	
Lithium	Exchangeable	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Carbonate	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Amorphous Fe/Mn Oxides	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Crystalline Fe/Mn Oxides	NA	NA	NA	NA	NA	NA	NA	NA	0.70 J
	Organic-Bound	NA	NA	NA	NA	NA	NA	NA	NA	5.0 JB
	Sulfides	NA	NA	NA	NA	NA	NA	NA	NA	7.5
	Residual	NA	NA	NA	NA	NA	NA	NA	NA	1.7 J
	Sum of Steps	NA	NA	NA	NA	NA	NA	NA	NA	15.0
Total	NA	NA	NA	NA	NA	NA	NA	NA	15.0	

Notes:

- All results are reported in milligram of constituent per kilogram of total sample mass
- ND = compound not detected
- SEP = sequential extraction procedure
- J = Results are less than the reporting/requested limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value
- B = Compound was not found in the blank and sample
- * = Lab control sample and Lab control sample duplicate are outside acceptance limits and high biased
- L = Negative instrument reading had an absolute value greater than the reporting limit
- Fe = iron
- Mn = manganese
- FT BGS = feet below ground surface
- NS - not analyzed

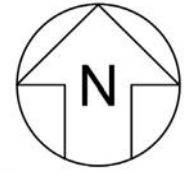
Table 3
AP-B Interstitial Piezometer Data Summary
Plant Branch AP-B, Putnam County, Georgia

Analyte	Unit	Interstitial Water							
		IW-B-1		IW-B-2			IW-B-3	IW-B-4	IW-B-5
		3/3/2021	2/1/2023	10/22/2019	3/3/2021	1/31/2023	6/5/2023	6/5/2023	6/5/2023
Analytical Parameters									
Boron	mg/L	1.1	1.52	4.3	2	1.16	1.28	1.05	0.366
Calcium	mg/L	135	168	177	196	196	166	95.2	36.8
Chloride	mg/L	3.5	7.41	6.3	5.7	5.28	29.6	19.3	0.693
Fluoride	mg/L	0.081 J	0.227	1.4	1.2	0.787	0.129	0.112	0.113
Sulfate	mg/L	104	160	< 0.017 U	612	689	636	284	62.1
TDS	mg/L	488	597	950	1,050	1,230	826	593	232
Beryllium	mg/L	NS	NS	< 0.00007 U	NS	NS	NS	NS	NS
Cadmium	mg/L	0.0002 J	< 0.0003 U	0.00012 J	< 0.0001 U	< 0.0003 U	NS	NS	NS
Cobalt	mg/L	0.003 J	0.00123	< 0.0003 U	< 0.0004 U	< 0.0003 U	< 0.0003 U	0.00586	0.000852 J
Lithium	mg/L	NS	NS	0.29	NS	NS	NS	NS	NS
Field Parameters									
Dissolved Oxygen (DO)	mg/L	0.54	0.08	0.06	0.09	0.01	0.17	0.12	0.16
Oxidation Reduction Potential (ORP)	mV	24.4	8.34	-191.7	-182	-91.88	81.82	70.89	29.14
pH	SU	6.86	7.32	7.31	7.15	6.53	8.40	5.79	5.81
Specific Conductance	µS/cm	790.5	943.06	1,253.60	1,464.95	1,507.67	828.84	610.65	227.31
Temperature	deg C	18.83	18.62	22.81	18.1	17.48	21.34	23.11	21.06
Turbidity	NTU	4.66	4.4	3.77	4.62	4.61	4.29	0.7	4

Notes:

1. < = for compounds not detected, the associated value is the method detection limit
2. J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)
3. mg/L = milligrams per liter
4. mV = millivolts
5. deg C = degrees celsius
6. NTU = Nephelometric Turbidity Units
7. SU = Standard Unit
8. µS/cm = microsiemens per centimeter
9. NS = not sampled

FIGURES



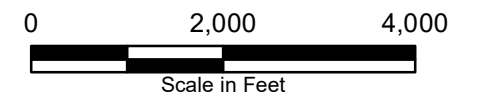
LEGEND

- - - Plant Branch Property Boundary
- · - · - Approximate Ash Pond Boundary



Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

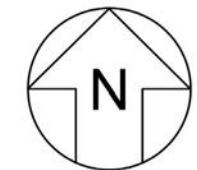
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

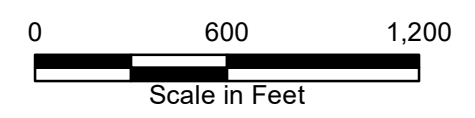
FEBRUARY 2024

FIGURE
1



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Interstitial Piezometer
 - Angled Well Screen
 - - - Plant Branch Property Boundary
 - ⋯ Approximate Ash Pond Boundary
 - - - Former Coal Pile Area (FCPA)

Notes:
 1. Property Boundary Provided by Southern Company Services.
 2. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



MONITORING WELL NETWORK MAP

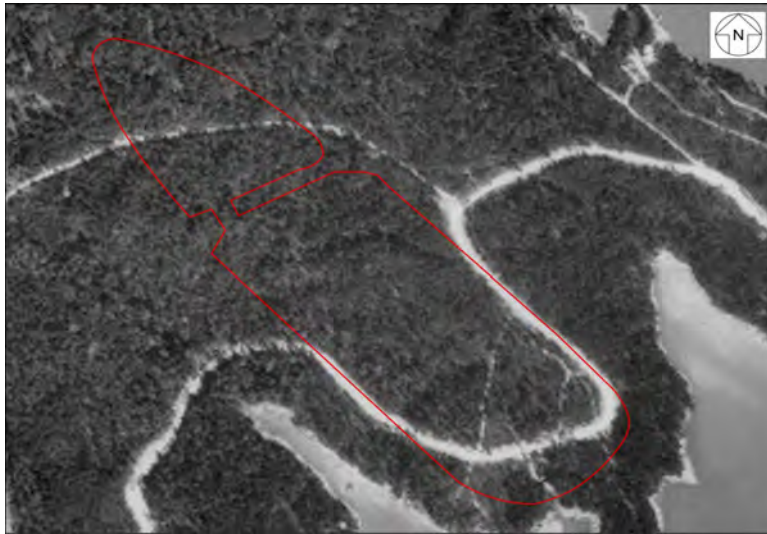
GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA FEBRUARY 2024

FIGURE 2



October 10, 1960



November 11, 1965



October 13, 1967 (superimposed onto Nov 1965 image)



January 1, 1993

Notes:

1. The red outline details the approximate extent of the coal pile.
2. Aerial source: SCS (1960, 1965, 1967); Google Earth Pro (1993).

Temporal Evolution of the Former Coal Pile: 1960 – 1993

Georgia Power Company
 Plant Branch AP-BCD
 Putnam County, Georgia

Prepared For:



Prepared By:



KENNESAW, GA

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**Figure
 3a**



November 3, 2013



October 15, 2015



March 15, 2017



May 22, 2023

Notes:

1. The red outline details the approximate extent of the coal pile.
2. Aerial source: Google Earth Pro (2013, 2015, 2017, 2023).

Temporal Evolution of the Former Coal Pile: 2013 – 2023

Georgia Power Company
 Plant Branch AP-BCD
 Putnam County, Georgia

Prepared For:



Prepared By:

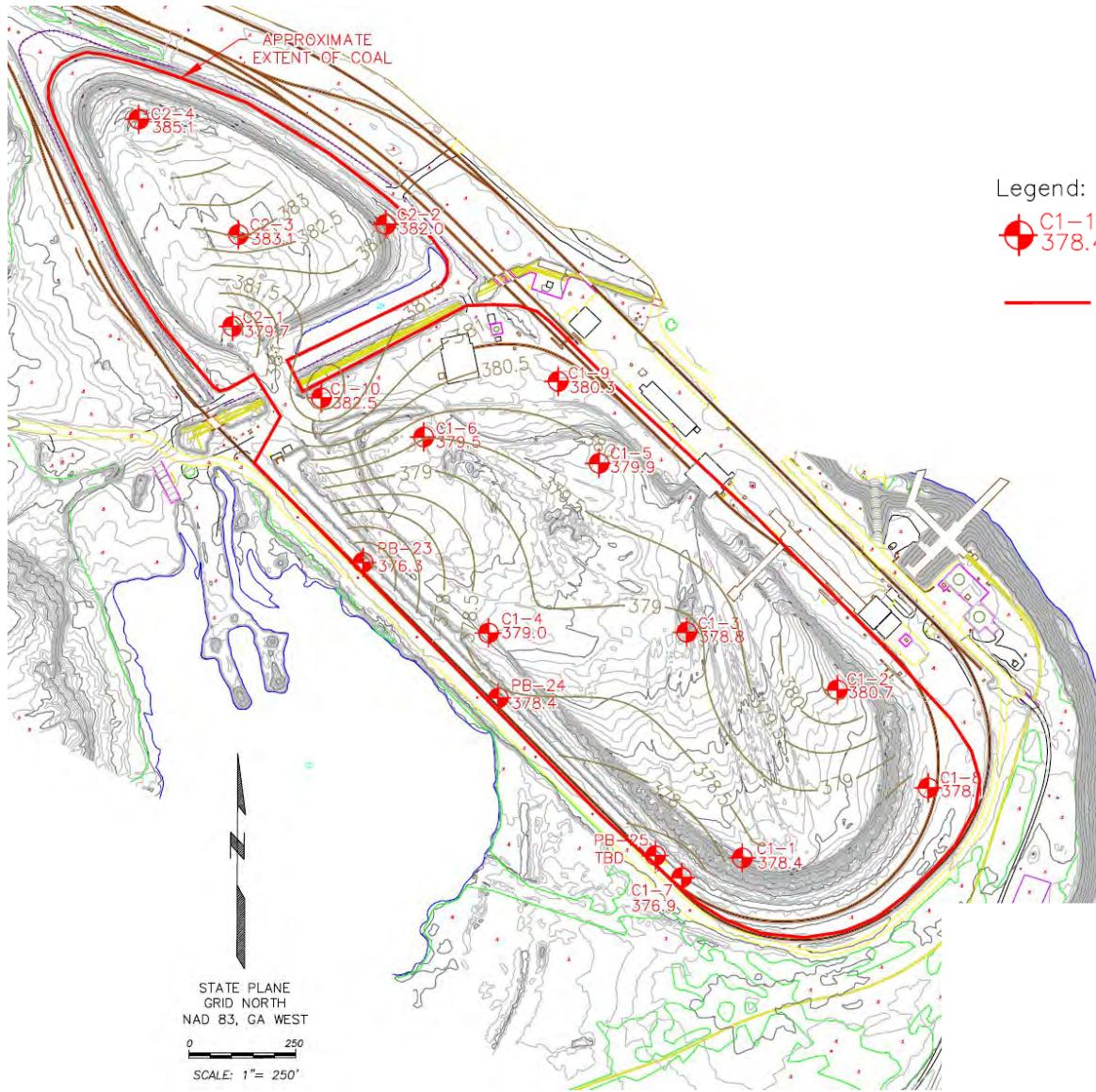


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Figure

3b



Legend:

- C1-1 Boring location and name
- 378.4 Coal Pile Bottom including coal/soil mix
- Approximate extent of coal

Notes:

1. From Southern Company Services (SCS) Plant Branch Coal Pile Decommissioning Evaluation

Estimated Aerial Extent of Coal

Georgia Power Company
 Plant Branch AP-BCD
 Putnam County, Georgia

Prepared For:



Prepared By:

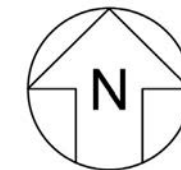


Figure

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4



- LEGEND**
- DPT Boring
 - ⊕ Monitoring Well
 - - - Plant Branch Property Boundary
 - ⋯ Approximate Ash Pond Boundary
 - ▭ Approximate Extent of Former Coal

- Notes:
1. DPT and monitoring well results collected in March 2018.
 2. pH presented in standard units (s.u.)
 3. Specific Conductivity (Cond) presented in micro siemens per centimeter (µS/cm)
 4. Arsenic (As) presented in milligrams per liter (mg/L). Cadmium (Cd) presented in milligrams per liter (mg/L).
 5. Property Boundary Provided by Southern Company Services.
 6. Aerial Source: ESRI World Wayback Imagery March 2018.



SUMMARY OF 2018 RESOLUTE GROUNDWATER INVESTIGATION

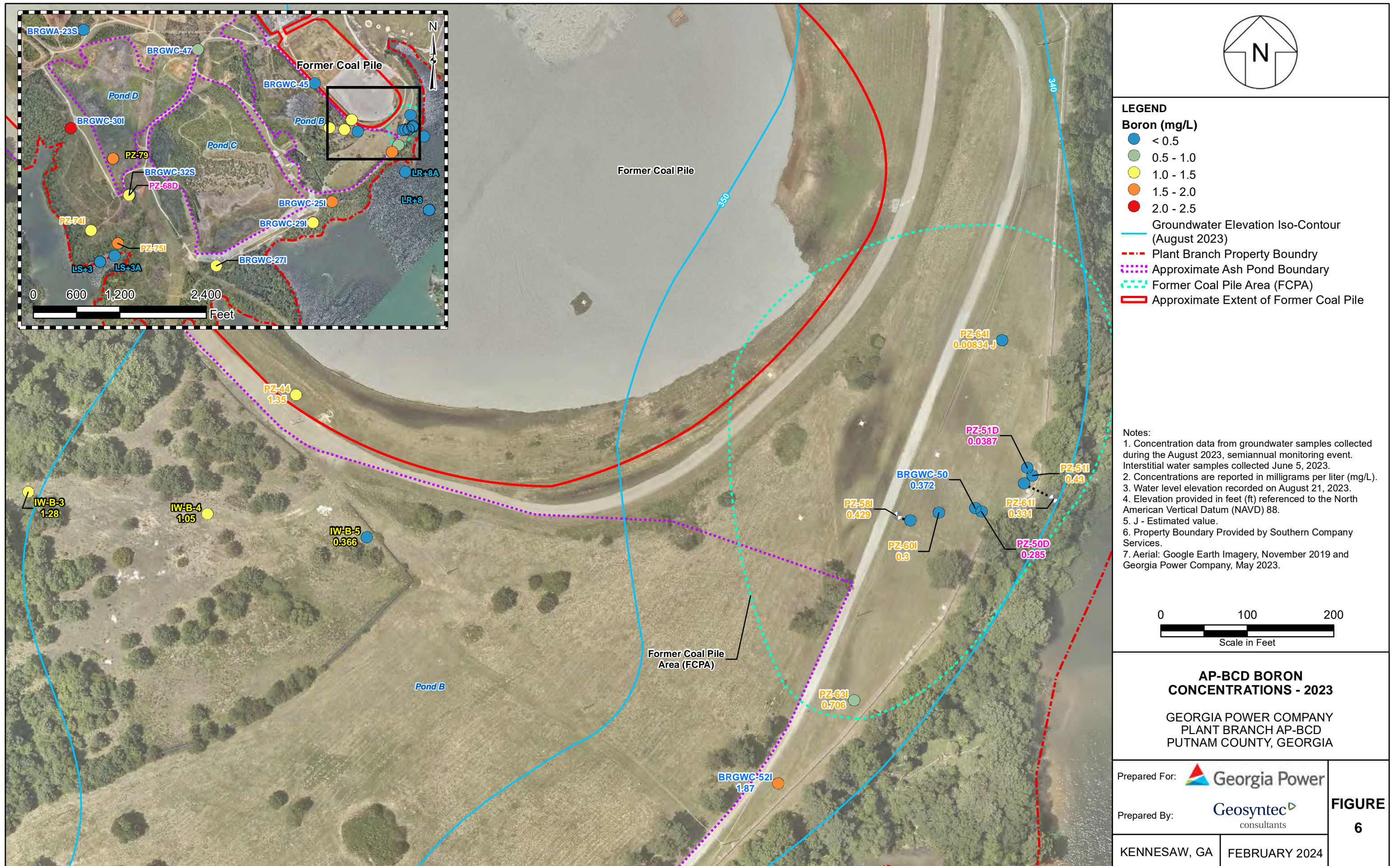
GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

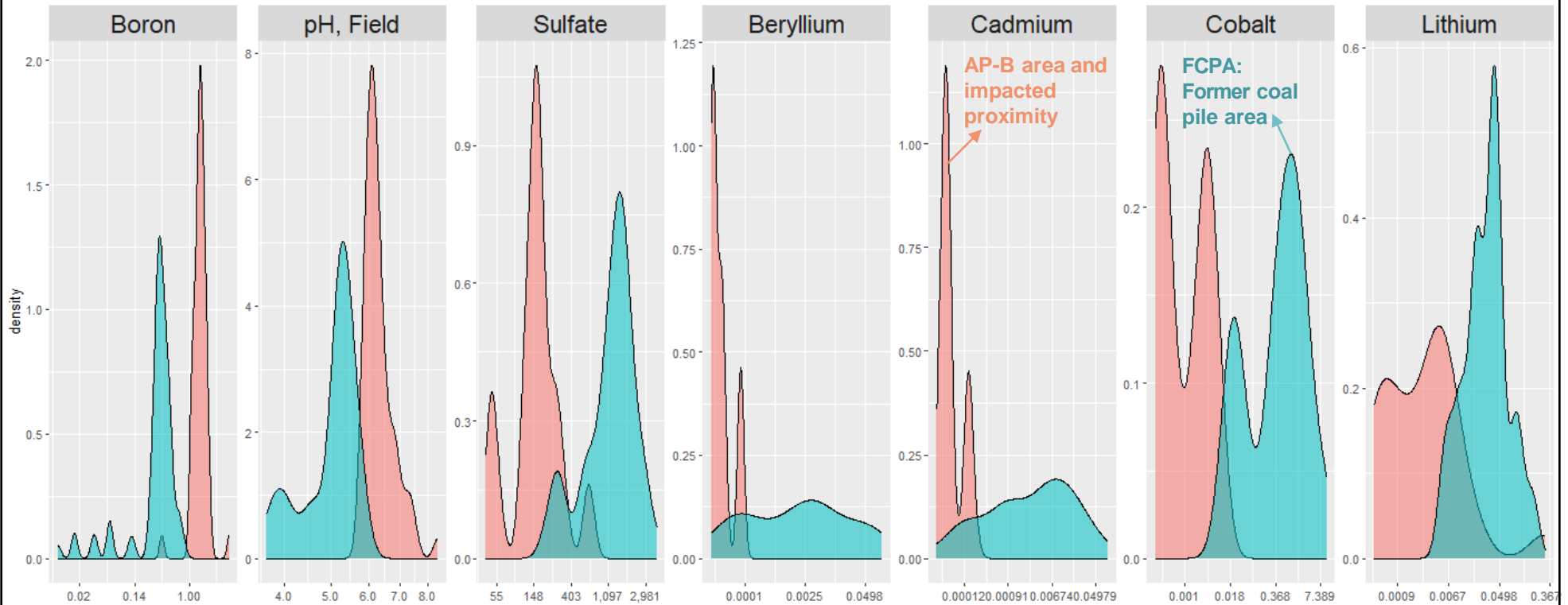
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA FEBRUARY 2024

FIGURE 5





Notes:

1. Pink shading: AP-B area and potentially impacted proximity; BRGWC-25I, BRGWC-52I, IW-B-1, IW-B-2, IW-B-3, IW-B-4, IW-B-5 (2018-2023)
2. Blue Shading: FCPA: Former coal pile area; BRGWC-50, PZ-51I, PZ-57I, PZ-58I, PZ-59I, PZ-60I, PZ-61I, PZ-62I, PZ-63I, PZ-64I, PZ-65I, PZ-66I (2018-2023)
3. The graphs represents the smoothed histogram (kernel density estimate) for the two populations.
4. The units for parameters on the x axis, except pH, are milligrams per liter (mg/L).

Histogram Comparison of FCPA and AP-B

Georgia Power Company Plant Branch AP-BCD
Putnam County, Georgia

Prepared For:



Prepared By:

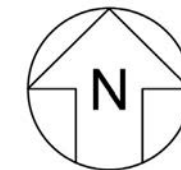
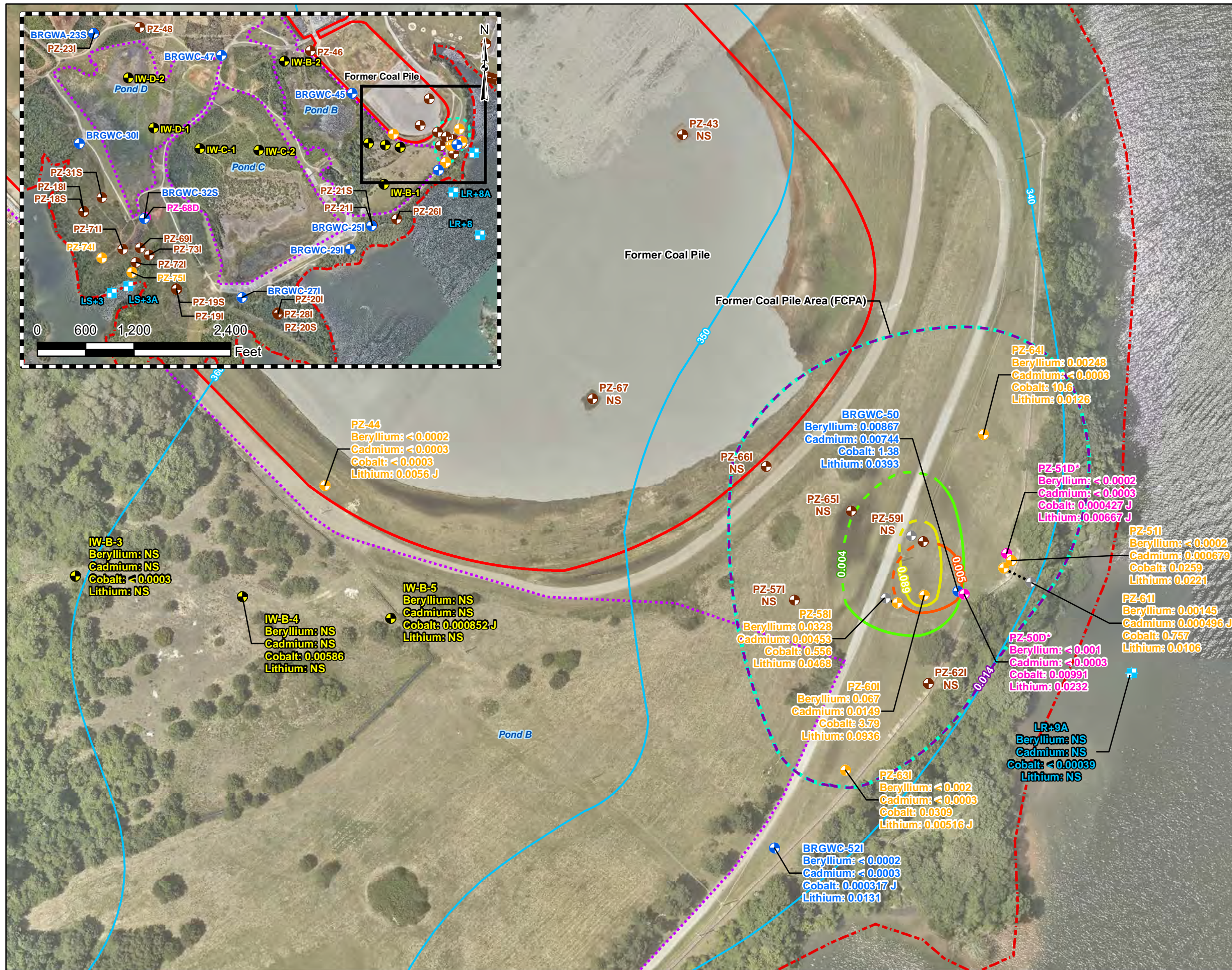


KENNESAW, GA

FEBRUARY 2024

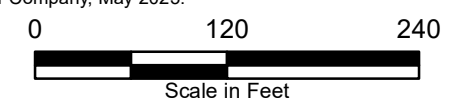
Figure

7



- LEGEND**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - + Interstitial Piezometer
 - + Angled Well Screen
 - + Surface Water
 - Groundwater Elevation Iso-Contour (August 2023)
 - 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
 - 0.005 Cadmium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
 - 0.014 Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
 - 0.089 Lithium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
 - Plant Branch Property Boundary
 - ⋯ Approximate Ash Pond Boundary
 - ▣ Former Coal Pile Area (FCPA)
 - ▭ Approximate Extent of Former Coal Pile

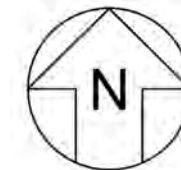
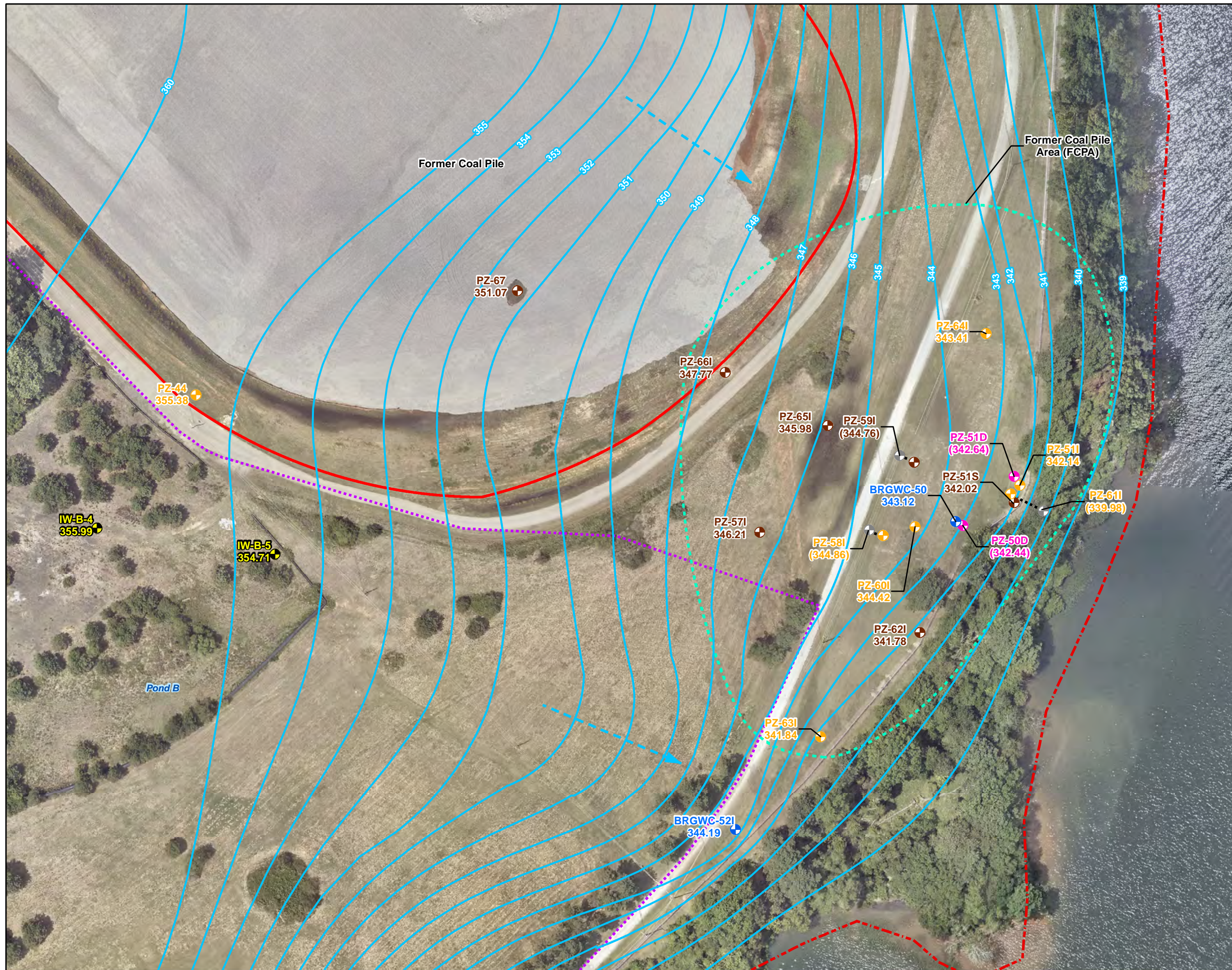
- Notes:**
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event. Interstitial water samples collected June 5, 2023.
 2. Concentrations are reported in milligrams per liter (mg/L).
 3. Water level elevation recorded on August 21, 2023.
 4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 5. The Groundwater Protection Standards (GWPS) for beryllium is 0.004 mg/L, cadmium is 0.005 mg/L, cobalt is 0.014 mg/L, and Lithium is 0.089 mg/L.
 6. J - Estimated value.
 7. * - Data reported was not used to generate the iso-concentration contour.
 8. NS - Not Sampled
 9. Property Boundary Provided by Southern Company Services.
 10. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



ISO-CONCENTRATION MAP, BERYLLIUM, CADMIUM, COBALT, AND LITHIUM - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

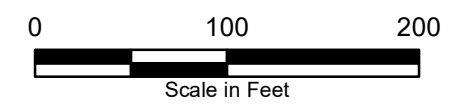
Prepared For:	Georgia Power	FIGURE 8
Prepared By:	Geosyntec consultants	
KENNESAW, GA	FEBRUARY 2024	



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Angled Well Screen
 - Interstitial Piezometer
 - Groundwater Elevation Iso-Contour (August 2023)
 - ▶ Approximate Groundwater Flow Direction
 - - - Plant Branch Property Boundary
 - ⋯ Approximate Ash Pond Boundary
 - ⋯ Former Coal Pile Area (FCPA)
 - ▭ Approximate Extent of Former Coal Pile



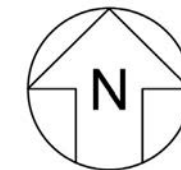
- Notes:**
1. Water level elevation recorded on August 21, 2023, for semiannual groundwater event.
 2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
 3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
 4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
 5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
 6. Property Boundary Provided by Southern Company Services.
 7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



**POTENTIOMETRIC SURFACE
CONTOUR MAP -
AUGUST 2023**

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For:	Georgia Power	FIGURE 9
Prepared By:	Geosyntec consultants	
KENNESAW, GA	FEBRUARY 2024	



LEGEND

pH

- 3 to 4
- 4 to 5
- 5 to 6
- >6

- Groundwater Elevation Iso-Contour (August 2023)
- - - Plant Branch Property Boundary
- - - Approximate Ash Pond Boundary
- - - Former Coal Pile Area (FCPA)
- - - Approximate Extent of Former Coal Pile

Notes:

1. DPT pH values collected in 2018. Piezometer and monitoring well pH values collected between January and August 2023.
2. pH presented in standard units (s.u.)
3. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
4. Property Boundary Provided by Southern Company Services.
5. Aerial Source: ESRI World Wayback Imagery March 2018.



AP-B AND FORMER COAL PILE PH MAP

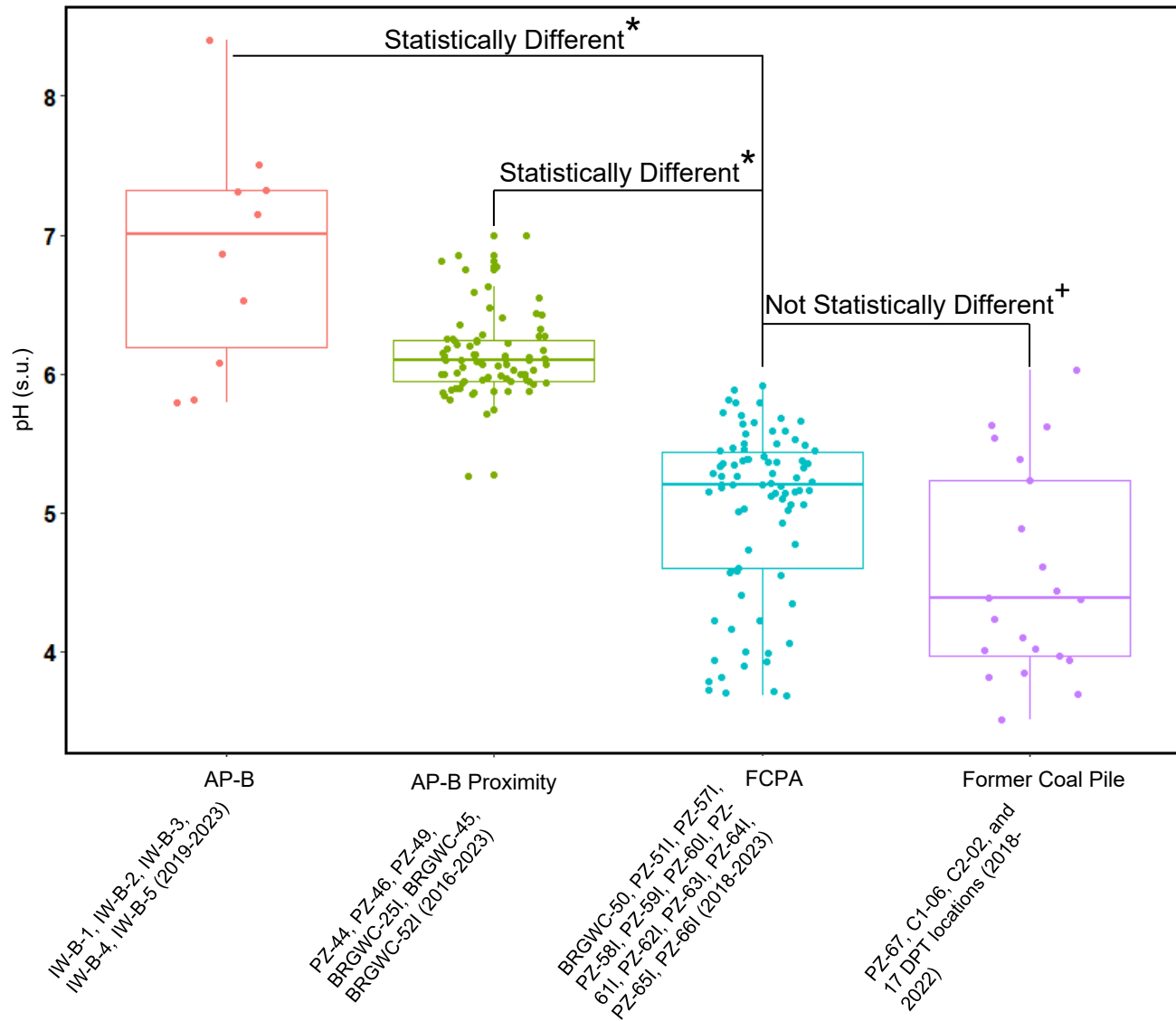
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA FEBRUARY 2024

FIGURE
10



Notes:

1. FCPA = Former coal pile area
2. "*" indicates statistically significant differences between two means, while "+" indicates no statistically significant difference between groups at a 95% confidence level (Kruskal-Wallis one-way analysis of variance followed by Dunn post-hoc pairwise comparison. p-values adjusted with the Holm method).

pH Box Plots

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For:



Prepared By:

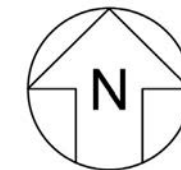
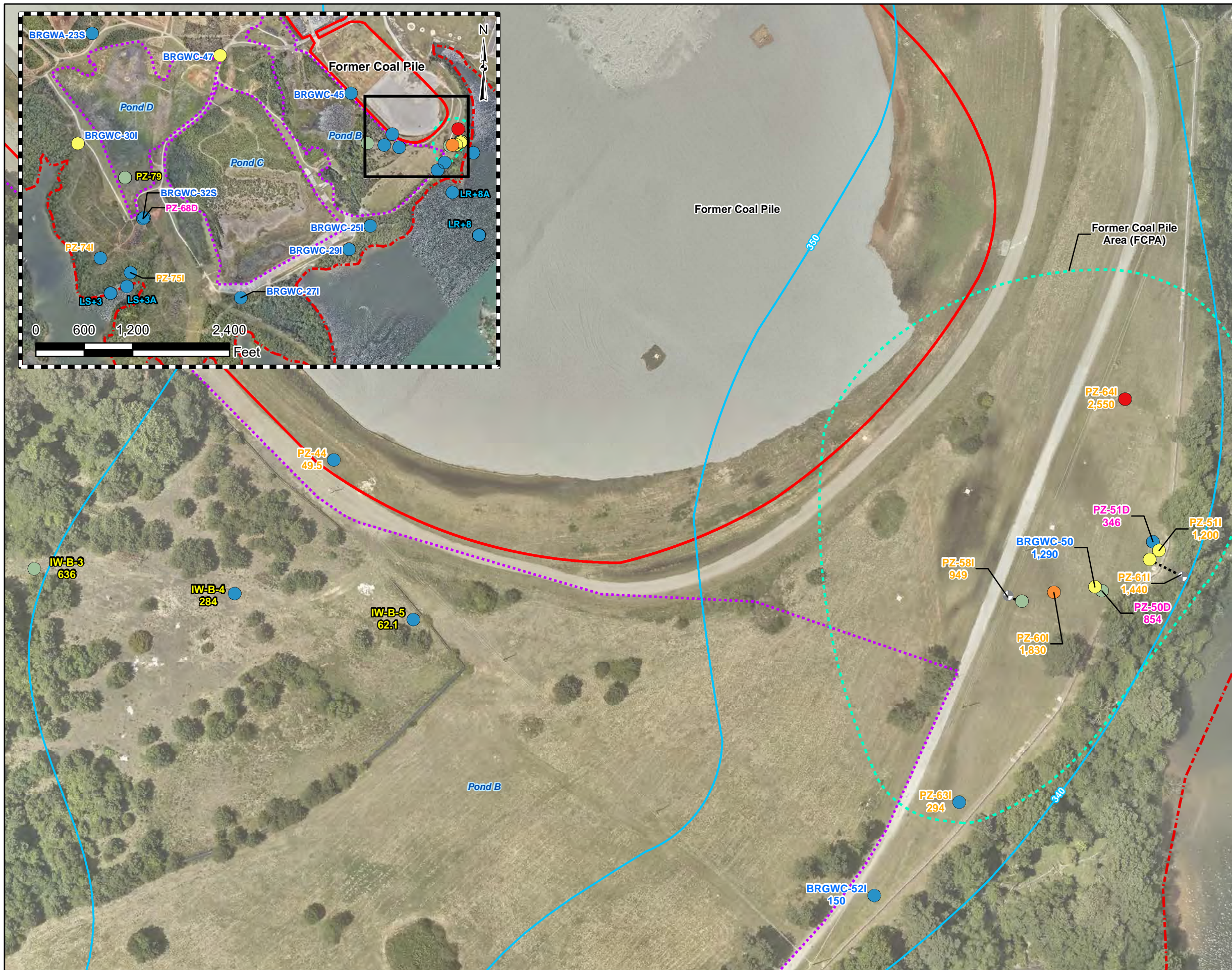


KENNESAW, GA

FEBRUARY 2024

Figure

11



LEGEND

Sulfate (mg/L)

- < 500
- 500 - 1,000
- 1,000 - 1,500
- 1,500 - 2,000
- > 2,000

- Groundwater Elevation Iso-Contour (August 2023)
- - - Plant Branch Property Boundary
- ⋯ Approximate Ash Pond Boundary
- ⋯ Former Coal Pile Area (FCPA)
- ▭ Approximate Extent of Former Coal Pile

Notes:

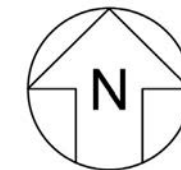
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event. Interstitial groundwater samples collected June 5, 2023.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. Property Boundary Provided by Southern Company Services.
6. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



**AP-BCD SULFATE
CONCENTRATIONS - 2023**

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For:		FIGURE 12
Prepared By:		
KENNESAW, GA	FEBRUARY 2024	



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Angled Well Screen
 - Temporary Interstitial Well
 - Dewatering Pilot Study Location
 - Surface Water
 - Plant Branch Property Boundary
 - Approximate Ash Pond Boundary
 - Former Coal Pile Area (FCPA)
 - Approximate Extent of Former Coal Pile

Notes:
 1. Property Boundary Provided by Southern Company Services.
 2. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.



STABLE ISOTOPE SAMPLING LOCATIONS

GEORGIA POWER COMPANY
 PLANT BRANCH AP-BCD
 PUTNAM COUNTY, GEORGIA

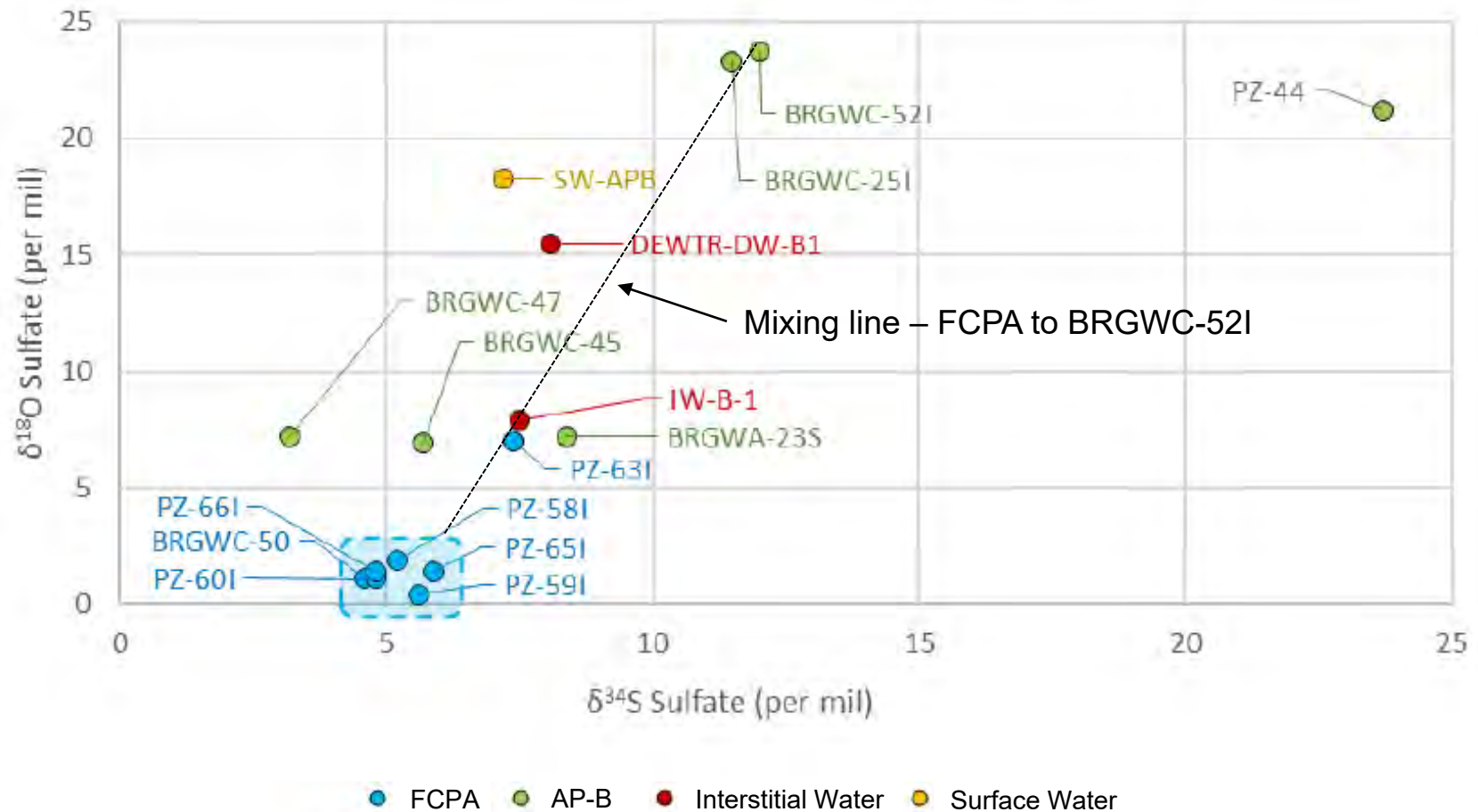
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA FEBRUARY 2024

FIGURE 13

Stable S and O Isotopes of Sulfate



Notes:

1. Full Report by Arcadis in Appendix D (2023).
2. FCPA = Former coal pile area

Stable Isotopes of Sulfur and Oxygen

Georgia Power Company
 Plant Branch AP-BCD
 Putnam County, Georgia

Prepared For:



Prepared By:



KENNESAW, GA

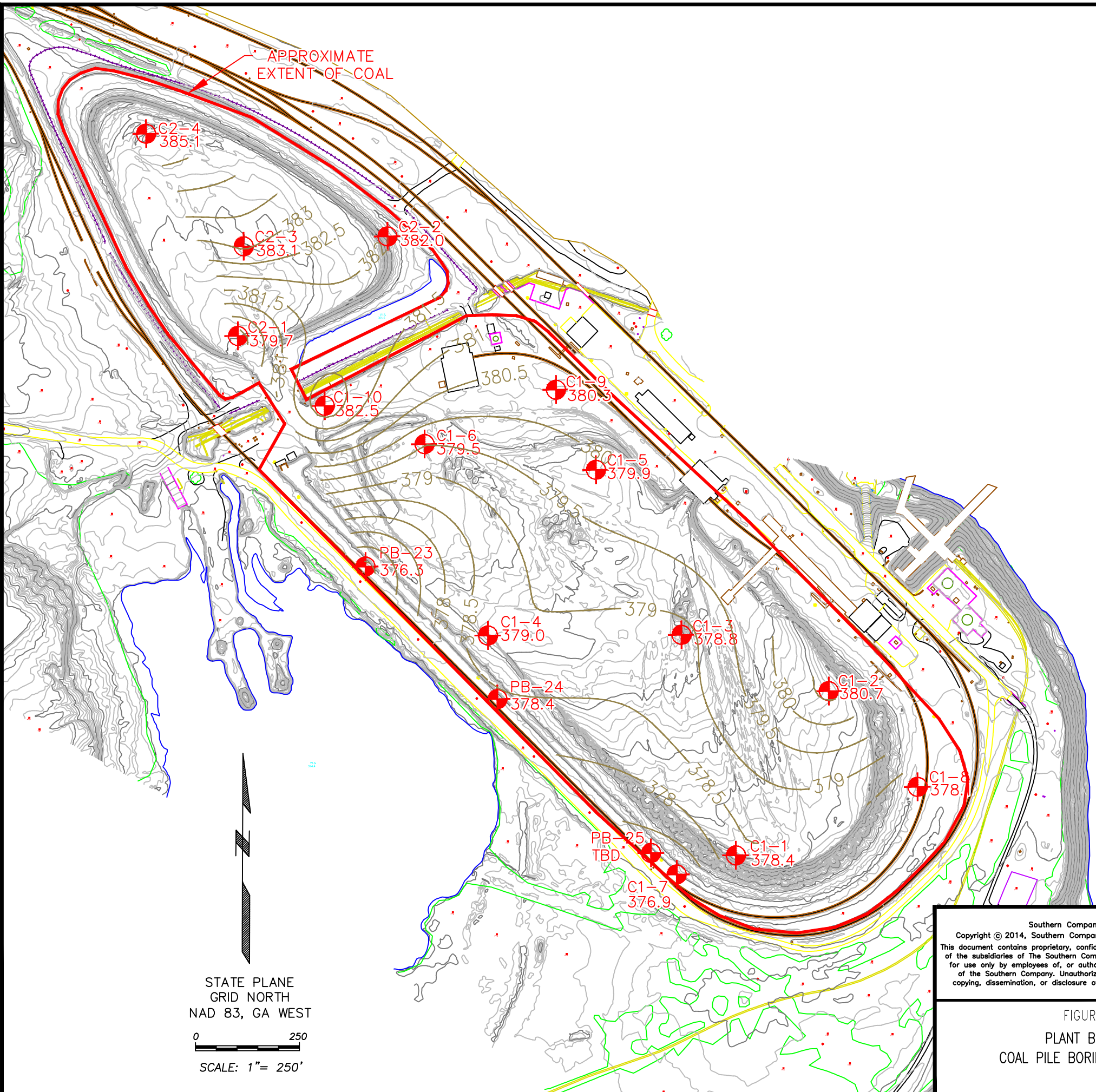
FEBRUARY 2024

Figure

14

APPENDIX A

Monitoring Well Construction Logs



Legend:

- C1-1 Boring location and name
- 378.4 Coal Pile Bottom including coal/soil mix
- Approximate extent of coal

AS OF AUGUST 12 AND 13, 2014

PT#	PLANT GRID		GA NAD83 WEST		Elev.
	North	East	North	East	
C1-1	4451.44	7740.28	1161816.43	2561712.32	383.41
C1-2	4897.08	7826.43	1162211.52	2561935.74	402.66
C1-3	4912.79	7447.45	1162346.97	2561581.45	400.75
C1-4	4763.20	7006.62	1162345.36	2561115.93	383.97
C1-5	5223.74	7126.05	1162744.00	2561375.65	414.88
C1-6	5151.32	6715.63	1162805.89	2560963.51	382.00
C1-7	4362.55	7619.94	1161770.43	2561569.95	380.10
C1-8	4746.57	8102.21	1161981.10	2562149.32	381.14
C1-9	5376.01	6973.51	1162936.88	2561279.47	382.31
C1-10	5162.24	6458.45	1162898.05	2560723.17	383.51
C2-1	5255.19	6207.10	1163066.12	2560514.44	383.72
C2-2	5596.79	6471.82	1163305.78	2560874.07	383.53
C2-3	5463.95	6151.56	1163281.71	2560528.19	386.11
C2-4	5646.35	5842.78	1163552.86	2560293.47	387.11
PB-23	4826.79	6674.43	1162511.33	2560821.22	381.28
PB-24	4625.20	7076.79	1162192.22	2561138.56	381.35
PB-25			1161822.15 tbd	2561508.14 tbd	

- Note:
1. C1-7, C1-8, C1-9, C1-10 are hydro-excavated locations
 2. PB-23, PB-24, PB-25 performed by Golder Associates Inc.
 3. Figure topography is dated as of 01/16/2014

STATE PLANE
GRID NORTH
NAD 83, GA WEST

0 250
SCALE: 1" = 250'

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FIGURE 1
PLANT BRANCH
COAL PILE BORING LOCATIONS

BY ASF	CHK'D ARC	DATE 09/02/2014		
Southern Company Generation Engineering and Construction Services				
FOR				
Georgia Power Company				
SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	ES2374	1	FINAL	0



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-1

Sheet 1 of 1

SITE Plant Branch Coal Pile		HOLE DEPTH 10'	SURF.ELEV. 383.4
LOCATION Milledgeville, GA		COORDINATES N 1161816.43	E 2561712.32
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH DRY		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam	RECORDER S. Baxter	APPROVED C. Sellers	DRILLING START DATE 8/12/2014
			DRILLING COMP. DATE 8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From	To	Blows			
0	383.40	COAL							
1	382.40								
2	381.40								
3	380.40								
4	379.40								
5	378.40	4.5-5.0'- COAL/SOIL mix zone							
6	377.40	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, weathered quartz gravel				NATIVE SAPROLITE			
7	376.40								
8	375.40								
9	374.40								
10	373.40								
11	372.40	10'- Bottom of boring				Boring terminated 5 ft into "clean" native soil			
12	371.40								
13	370.40								
14	369.40								
15	368.40								
16	367.40								
17	366.40								
18	365.40								
19	364.40								
20	363.40								
21	362.40								
22	361.40								
23	360.40								
24	359.40								



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-2

Sheet 1 of 2

SITE Plant Branch Coal Pile		HOLE DEPTH 30'	SURF.ELEV. 402.7
LOCATION Milledgeville, GA		COORDINATES N 1162211.52	E 2561935.74
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH 29.4'		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam		RECORDER S. Baxter	APPROVED C. Sellers
		DRILLING START DATE 8/12/2014	DRILLING COMP. DATE 8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
0	402.70	COAL					Blind bore to 20 ft		
1	401.70								
2	400.70								
3	399.70								
4	398.70								
5	397.70								
6	396.70								
7	395.70								
8	394.70								
9	393.70								
10	392.70								
11	391.70								
12	390.70								
13	389.70								
14	388.70								
15	387.70								
16	386.70								
17	385.70								
18	384.70								
19	383.70								
20	382.70								
21	381.70								
22	380.70	21-22'- COAL/SOIL mix zone							
23	379.70	red silty CLAY (CL), wet, relatively stiff, micaceous, trace gravel							
24	378.70								

DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-2

Sheet 2 of 2

SITE Plant Branch Coal Pile TOTAL DEPTH 30' SURF.ELEV. 402.7

Milledgeville, GA

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
25	377.70	red silty CLAY (CL), wet, mottled orange, micaceous, trace gravel							
26	376.70								
27	375.70								
28	374.70								
29	373.70								
30	372.70								
31	371.70	30' - Bottom of boring				Boring terminated 5 ft into "clean" native soil			
32	370.70								
33	369.70								
34	368.70								
35	367.70								
36	366.70								
37	365.70								
38	364.70								
39	363.70								
40	362.70								
41	361.70								
42	360.70								
43	359.70								
44	358.70								
45	357.70								
46	356.70								
47	355.70								
48	354.70								
49	353.70								
50	352.70								
51	351.70								
52	350.70								
53	349.70								
54	348.70								
55	347.70								
56	346.70								



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-3

Sheet 1 of 2

SITE Plant Branch Coal Pile		HOLE DEPTH 30'	SURF. ELEV. 400.8
LOCATION Milledgeville, GA		COORDINATES N 1162346.97	E 2561581.45
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH DRY		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam		RECORDER S. Baxter	APPROVED C. Sellers
		DRILLING START DATE 8/12/2014	DRILLING COMP. DATE 8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From	To	Blows			
0	400.80	COAL					Blind bore to 20 ft		
1	399.80								
2	398.80								
3	397.80								
4	396.80								
5	395.80								
6	394.80								
7	393.80								
8	392.80								
9	391.80								
10	390.80								
11	389.80								
12	388.80								
13	387.80								
14	386.80								
15	385.80								
16	384.80								
17	383.80								
18	382.80								
19	381.80								
20	380.80								
21	379.80	20-22'- COAL/SOIL mix zone							
22	378.80								
23	377.80	brown sandy SILT (ML), moist, coarse to fine grained, mottled orange and white, well graded, micaceous, trace pwrif					NATIVE SOIL		
24	376.80								



DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-3

Sheet 2 of 2

SITE Plant Branch Coal Pile TOTAL DEPTH 30' SURF.ELEV. 400.8
Milledgeville, GA

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
25	375.80	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange and white, well graded, micaceous, trace pwrfl					SAPROLITE		
26	374.80								
27	373.80								
28	372.80								
29	371.80								
30	370.80								
31	369.80	30' - Bottom of boring					Boring terminated 5 ft into "clean" native soil		
32	368.80								
33	367.80								
34	366.80								
35	365.80								
36	364.80								
37	363.80								
38	362.80								
39	361.80								
40	360.80								
41	359.80								
42	358.80								
43	357.80								
44	356.80								
45	355.80								
46	354.80								
47	353.80								
48	352.80								
49	351.80								
50	350.80								
51	349.80								
52	348.80								
53	347.80								
54	346.80								
55	345.80								
56	344.80								



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-4

Sheet 1 of 1

SITE Plant Branch Coal Pile		HOLE DEPTH 10'	SURF.ELEV. 384.0
LOCATION Milledgeville, GA		COORDINATES N 1162345.36	E 2561115.93
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH DRY		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam	RECORDER S. Baxter	APPROVED C. Sellers	DRILLING START DATE 8/13/2014
			DRILLING COMP. DATE 8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD	
				From To	Blows	N				
0	384.00	COAL								
1	383.00									
2	382.00									
3	381.00									
4	380.00									
5	379.00									
6	378.00	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, weathered quartz gravel, trace red silty clay in upper portion				NATIVE SAPROLITE				
7	377.00									
8	376.00									
9	375.00									
10	374.00									
11	373.00		10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	372.00									
13	371.00									
14	370.00									
15	369.00									
16	368.00									
17	367.00									
18	366.00									
19	365.00									
20	364.00									
21	363.00									
22	362.00									
23	361.00									
24	360.00									



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-5

Sheet 1 of 2

SITE Plant Branch Coal Pile		HOLE DEPTH 40'	SURF.ELEV. 414.9
LOCATION Milledgeville, GA		COORDINATES N 1162744.00	E 2561375.65
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH 39.5'		ELEV. _____	TIME AFTER COMP. End +2 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam	RECORDER S. Baxter	APPROVED C. Sellers	DRILLING START DATE 8/12/2014
			DRILLING COMP. DATE 8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From	To	Blows			
0	414.90	COAL					Blind bore to 35 ft, missed coal/soil interface. Offset five feet then redrilled to 25 ft for spoon.		
1	413.90								
2	412.90								
3	411.90								
4	410.90								
5	409.90								
6	408.90								
7	407.90								
8	406.90								
9	405.90								
10	404.90								
11	403.90								
12	402.90								
13	401.90								
14	400.90								
15	399.90								
16	398.90								
17	397.90								
18	396.90								
19	395.90								
20	394.90								
21	393.90								
22	392.90								
23	391.90								
24	390.90								

DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-5
Sheet 2 of 2

SITE Plant Branch Coal Pile TOTAL DEPTH 40' SURF.ELEV. 414.9
Milledgeville, GA

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
25	389.90								
26	388.90								
27	387.90								
28	386.90								
29	385.90								
30	384.90								
31	383.90								
32	382.90								
33	381.90								
34	380.90								
35	379.90	34.5-35.0'- COAL/SOIL mix zone							
36	378.90	brown sandy SILT (ML), moist, fine grained, slight orange and white mottle, well graded, micaceous, trace red silty clay					NATIVE SOIL		
37	377.90								
38	376.90								
39	375.90	brown sandy SILT (ML), moist, coarse to fine grained, mottled orange and white, well graded, micaceous, trace pwrfl							
40	374.90								
41	373.90	40'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
42	372.90								
43	371.90								
44	370.90								
45	369.90								
46	368.90								
47	367.90								
48	366.90								
49	365.90								
50	364.90								
51	363.90								
52	362.90								
53	361.90								
54	360.90								
55	359.90								
56	358.90								



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C1-6
Sheet 1 of 1

SITE <u>Plant Branch Coal Pile</u>		HOLE DEPTH <u>10'</u>	SURF.ELEV. <u>382.0</u>
LOCATION <u>Milledgeville, GA</u>		COORDINATES N <u>1162805.89</u>	E <u>2560963.51</u>
ANGLE <u>0</u>	BEARING <u>0</u>	CONTRACTOR <u>SC Services</u>	DRILL NO. <u>CME550</u>
DRILLING METHOD <u>Hollow Stem Auger</u>		NO. SAMPLES <u>0</u>	NO. U.D. SAMPLES <u>0</u>
CASING SIZE <u>NA</u>	LENGTH <u>NA</u>	CORE SIZE <u>NA</u>	TOTAL % REC. <u>NA</u>
WATER TABLE DEPTH <u>9.5'</u>		ELEV. _____	TIME AFTER COMP. <u>End +1 hrs</u>
TYPE GROUT <u>Drill Cuttings</u>		QUANTITY <u>NA</u>	MIX <u>NA</u>
DRILLER <u>S. Milam</u>	RECORDER <u>S. Baxter</u>	APPROVED <u>C. Sellers</u>	DRILLING START DATE <u>8/13/2014</u>
			DRILLING COMP. DATE <u>8/13/2014</u>

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From	To	Blows			
0	382.00	COAL							
1	381.00								
2	380.00								
3	379.00	2.0-2.5' COAL/SOIL mix zone red silty CLAY (CL), moist, mottled orange, micaceous, trace pwrfl							
4	378.00								
5	377.00	red brown sandy clayey SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace weathered quartz gravel				NATIVE SAPROLITE			
6	376.00								
7	375.00								
8	374.00								
9	373.00								
10	372.00								
11	371.00	10'- Bottom of boring				Boring terminated 5 ft into "clean" native soil			
12	370.00								
13	369.00								
14	368.00								
15	367.00								
16	366.00								
17	365.00								
18	364.00								
19	363.00								
20	362.00								
21	361.00								
22	360.00								
23	359.00								
24	358.00								



LOG OF TEST BORING

BORING C1-7
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 COMPLETED 7/31/2014 SURF. ELEV. 380.1 COORDINATES: N:1,161,770.43 E:2,561,569.95

CONTRACTOR Badger EQUIPMENT _____ METHOD Hydro-Excavate

DRILLED BY C. Williams LOGGED BY A. Crooks CHECKED BY _____ ANGLE _____ BEARING _____

BORING DEPTH 4 ft. GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED _____

NOTES _____

DEPTH (ft) GRAPHIC LOG	STRATA DESCRIPTION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE)	COMMENTS
				PERCENT RECOVERY (RQD)	
1	Coal (FILL) - black - Coal with orange silty soil with sand, low plasticity, some mica - Coal with tan silty sand, with mica				COAL 0 ft. to 0.5 ft. COAL/SOIL mix 0.5 ft. to 3.25 ft.
2					
3					
4	Silty Sand (SM) - tan, with mica				
	ELEV.				
	376.9				
	376.1				

Bottom of borehole at 4.0 feet.

2012 GEOTECH ENGINEERING LOGS - ES2012DATABASE.GDT - 9/2/14 13:38 - S:\WORKGROUPS\SCS ENGINEERING\TECHNICAL SERVICES\EARTH SCIENCES AND ENVIRONMENTAL ENGINEERING\ES2012\PROJECTS\BRANCH\2014\ES237.



LOG OF TEST BORING

BORING C1-8
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning

LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 COMPLETED 7/31/2014 SURF. ELEV. 381.1 COORDINATES: N:1,161,981.10 E:2,562,149.32

CONTRACTOR Badger EQUIPMENT _____ METHOD Hydro-Excavate

DRILLED BY C. Williams LOGGED BY A. Crooks CHECKED BY _____ ANGLE _____ BEARING _____

BORING DEPTH 4.3 ft. GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED _____

NOTES _____

DEPTH (ft)	GRAPHIC LOG	STRATA DESCRIPTION	ELEV.	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE)	PERCENT RECOVERY (RQD)	COMMENTS
1	█	Coal (FILL) - black						COAL 0 ft. to 1 ft.
2	█	- Coal with some soil mix						COAL/SOIL mix 1 ft. to 3 ft.
3	█		378.1					
4	█	Silt (ML) - orange and tanish brown, low plasticity, with sand						
		- trace organics (roots)	376.8					

Bottom of borehole at 4.3 feet.



LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 COMPLETED 7/31/2014 SURF. ELEV. 382.3 COORDINATES: N:1,162,936.88 E:2,561,279.47

CONTRACTOR Badger EQUIPMENT _____ METHOD Hydro-Excavate

DRILLED BY C. Williams LOGGED BY A. Crooks CHECKED BY _____ ANGLE _____ BEARING _____

BORING DEPTH 4.5 ft. GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED _____

NOTES _____

2012 GEOTECH ENGINEERING LOGS - ESEE2012DATABASE.GDT - 9/2/14 13:38 - S:\WORKGROUP\SPS\CS ENGINEERING\TECHNICAL SERVICES\EARTH SCIENCES AND ENVIRONMENTAL ENGINEERING\ES2374\PROJECTS\PROJECTS\BRANCH\2014\ES2374

DEPTH (ft) GRAPHIC LOG	STRATA DESCRIPTION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE)	COMMENTS
				PERCENT RECOVERY (RQD)	
0	Coal (FILL) - black				COAL 0 ft. to 1 ft.
1	- mixed with sand				COAL/SOIL mix 1 ft. to 2 ft.
2			380.3		
3	Silty Sand (SM) - tan, coarse grain, very micaceous				
4			377.8		

Bottom of borehole at 4.5 feet.



LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 COMPLETED 7/31/2014 SURF. ELEV. 383.5 COORDINATES: N:1,162,898.05 E:2,560,723.17

CONTRACTOR Badger EQUIPMENT _____ METHOD Hydro-Excavate

DRILLED BY C. Williams LOGGED BY A. Crooks CHECKED BY _____ ANGLE _____ BEARING _____

BORING DEPTH 5 ft. GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED _____

NOTES _____

2012 GEOTECH ENGINEERING LOGS - ESEE2012DATABASE.GDT - 9/2/14 13:38 - S:\WORKGROUPS\CS ENGINEERING\TECHNICAL SERVICES\EARTH SCIENCES AND ENVIRONMENTAL ENGINEERING\ES2374\MJOR PROJECTS\PROJECTS\BRANCH\2014\ES2374

DEPTH (ft) GRAPHIC LOG	STRATA DESCRIPTION ELEV.	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE)	COMMENTS
				PERCENT RECOVERY (RQD)	
1	Coal (FILL) - black - some silty soil 382.5				COAL 0 ft. to 0.5 ft. COAL/SOIL mix 0.5 ft. to 1 ft.
2	Silt (ML) - red brown, with trace COAL pieces 381.5				
3	- red brown, with sand, some mica				
4					
5	378.5				

Bottom of borehole at 5.0 feet.



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C2-1

Sheet 1 of 1

SITE Plant Branch Coal Pile		HOLE DEPTH 10'	SURF.ELEV. 383.7
LOCATION Milledgeville, GA		COORDINATES N 1163066.12	E 2560514.44
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH DRY		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam		RECORDER S. Baxter	APPROVED C. Sellers
		DRILLING START DATE 8/13/2014	DRILLING COMP. DATE 8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD	
				From To	Blows	N				
0	383.70	COAL								
1	382.70									
2	381.70	1.0-4.0'- COAL/SOIL mix zone, red silty CLAY (CL), moist, mottled orange, micaceous, trace coal								
3	380.70									
4	379.70									
5	378.70									
6	377.70	gray sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace white quartz				NATIVE SAPROLITE Sample lost 5-10'				
7	376.70									
8	375.70									
9	374.70									
10	373.70									
11	372.70		10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	371.70									
13	370.70									
14	369.70									
15	368.70									
16	367.70									
17	366.70									
18	365.70									
19	364.70									
20	363.70									
21	362.70									
22	361.70									
23	360.70									
24	359.70									



DRILLING LOG GEOLOGICAL SERVICES

Hole No. **C2-2**

Sheet 1 of 1

SITE Plant Branch Coal Pile		HOLE DEPTH 8.3'	SURF. ELEV. 383.5
LOCATION Milledgeville, GA		COORDINATES N 1163305.78	E 2560874.07
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH 8.0'	ELEV. 	TIME AFTER COMP. End +1 hrs	DATE TAKEN 8/13/2014
TYPE GROUT Drill Cuttings	QUANTITY NA	MIX NA	DRILLING START DATE 8/13/2014
DRILLER S. Milam	RECORDER S. Baxter	APPROVED C. Sellers	DRILLING COMP. DATE 8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
0	383.50	COAL							
1	382.50								
2	381.50	1.0-1.5' COAL/SOIL mix zone							
3	380.50	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace pwrif				NATIVE SAPROLITE			
4	379.50								
5	378.50								
6	377.50	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace pwrif							
7	376.50								
8	375.50								
9	374.50	8.3'- Bottom of boring				Auger refusal at 8.3' in "clean" native soil			
10	373.50								
11	372.50								
12	371.50								
13	370.50								
14	369.50								
15	368.50								
16	367.50								
17	366.50								
18	365.50								
19	364.50								
20	363.50								
21	362.50								
22	361.50								
23	360.50								
24	359.50								



DRILLING LOG GEOLOGICAL SERVICES

Hole No. C2-3

Sheet 1 of 1

SITE Plant Branch Coal Pile		HOLE DEPTH 10'	SURF. ELEV. 386.1
LOCATION Milledgeville, GA		COORDINATES N 1163281.71	E 2560528.19
ANGLE 0	BEARING 0	CONTRACTOR SC Services	DRILL NO. CME550
DRILLING METHOD Hollow Stem Auger		NO. SAMPLES 0	NO. U.D. SAMPLES 0
CASING SIZE NA	LENGTH NA	CORE SIZE NA	TOTAL % REC. NA
WATER TABLE DEPTH DRY		ELEV. _____	TIME AFTER COMP. End +1 hrs
TYPE GROUT Drill Cuttings		QUANTITY NA	MIX NA
DRILLER S. Milam	RECORDER S. Baxter	APPROVED C. Sellers	DRILLING COMP. DATE 8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD	
				From To	Blows	N				
0	386.10	COAL								
1	385.10									
2	384.10									
3	383.10	2.0-3.0'- COAL/SOIL mix zone								
4	382.10	red silty CLAY (CL), moist, mottled red, micaceous, trace pwr								
5	381.10	brown sandy SILT (ML), wet, medium to very coarse grained, well graded, micaceous, trace pwr				NATIVE SAPROLITE				
6	380.10									
7	379.10									
8	378.10									
9	377.10									
10	376.10									
11	375.10		10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	374.10									
13	373.10									
14	372.10									
15	371.10									
16	370.10									
17	369.10									
18	368.10									
19	367.10									
20	366.10									
21	365.10									
22	364.10									
23	363.10									
24	362.10									

DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C2-4

Sheet 1 of 1

SITE **Plant Branch Coal Pile** HOLE DEPTH **10'** SURF.ELEV. **387.1**
 LOCATION **Milledgeville, GA** COORDINATES N **1163552.86** E **2560293.47**
 ANGLE **0** BEARING **0** CONTRACTOR **SC Services** DRILL NO. **CME550**
 DRILLING METHOD **Hollow Stem Auger** NO. SAMPLES **0** NO. U.D. SAMPLES **0**
 CASING SIZE **NA** LENGTH **NA** CORE SIZE **NA** TOTAL % REC. **NA**
 WATER TABLE DEPTH **DRY** ELEV. _____ TIME AFTER COMP. **End +1 hrs** DATE TAKEN **8/13/2014**
 TYPE GROUT **Drill Cuttings** QUANTITY **NA** MIX **NA** DRILLING START DATE **8/13/2014**
 DRILLER **S. Milam** RECORDER **S. Baxter** APPROVED **C. Sellers** DRILLING COMP. DATE **8/13/2014**

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From	To	Blows			
0	387.10	COAL							
1	386.10								
2	385.10	1.0-2.0'- COAL/SOIL mix zone				NATIVE SAPROLITE			
3	384.10	brown silty SAND (SM), moist, fine to very coarse grained, mottled orange, micaceous, trace pwrf							
4	383.10								
5	382.10								
6	381.10	brown sandy SILT (ML), moist, fine to coarse grained, mottled orange, micaceous, trace pwrf and white quartz							
7	380.10								
8	379.10								
9	378.10								
10	377.10								
11	376.10	10'- Bottom of boring							Boring terminated 5 ft into "clean" native soil
12	375.10								
13	374.10								
14	373.10								
15	372.10								
16	371.10								
17	370.10								
18	369.10								
19	368.10								
20	367.10								
21	366.10								
22	365.10								
23	364.10								
24	363.10								



BORING LOG

BORING BRGWA-2S/PZ-02 S

Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 4/2/2014 COMPLETED 4/2/2014 GROUND ELEVATION 440.4 ft COORDINATES N 1167139.7 E 2549952.6

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 44.6 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 10.2 ft. after 288 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			440.4				Top of casing Elev. = 443.20
5		See PZ-02 1 for material descriptions					
10							
15							
20							
25							
30							
35							Annular Seal
							Filter Pack
40							
							Stratigraphic

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\GFCIPLANT BRANCH PIEZOMETERS.GPJ

Bottom of borehole at 44.6 feet.



BORING LOG

BORING BRGWA-21/PZ-02 I

Page 1 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 3/13/2014 **COMPLETED** 3/14/2014 **GROUND ELEVATION** 440.5 ft **COORDINATES** N 1167130 E 2549957.3

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ **EQUIPMENT** CME 550

DRILLED BY T. Milam **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 64.3 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 10.1 ft. after 288 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			440.5				Top of casing Elev. = 443.14
5		subsoil damp, medium stiff, silty CLAY, red and yellow-red					
10		saprolite damp, medium stiff, silty CLAY, yellow-red with black mottles, micas	428.5				
15		saprolite very damp, soft, clayey SILT, soft, red-brown, micas					
20		saprolite very damp, soft, clayey SILT, soft, red-brown, micas, some sand					
25		saprolite very damp, soft, clayey SILT, red-brown, micas, some sand					
30		saprolite very damp, hard, sandy SILT, dark gray and dark brown with black and white mottles	408.5				
35		saprolite wet, dense, silty SAND, dark gray-brown	403.5				
40		saprolite wet, stiff, clayey SILT, stiff, gray-brown with black mottles, micas	397.5				
45							

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE GDT - 10/29/20 14:45 - \\ALTRCFP01\LPARKER\DESKTOP\GFC\PIANT BRANCH PIEZOMETERS.GPJ

(Continued Next Page)



BORING LOG

BORING BRGWA-2I/PZ-02 I

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SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			440.5				Top of casing Elev. = 443.14
		saprolite wet, very dense, silty SAND, very dense, dark gray with white mottles <i>(Cont)</i>					(CONTINUED)
50		saprolite wet, dense, silty SAND, very dense, dark gray	390.9				Annular Seal
55		fine to medium grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite, vertical quartz veins, fresh					Filter Pack
60		fine to coarse grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite and garnet, fresh					
		fine to coarse grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite, fresh	376.2				Screen Tip Elevation

Bottom of borehole at 64.3 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\GFCI\PLANT BRANCH PIEZOMETERS.GPJ



BORING LOG

BORING BRGWA-5S/PZ-05 S

Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 4/3/2014 COMPLETED 4/3/2014 GROUND ELEVATION 440.8 ft COORDINATES N 1170177.5 E 2549415.5

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 40 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 10 ft. after 250 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCF001\LAPARKER\DESKTOP\PIANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA	
				75	150	225	Top of casing Elev. = 443.86	
440.8			440.8					
5		See PZ-05 I for material descriptions						
10		See PZ-5 I for material descriptions						
15								
20								
25								
30								
35								
40								
Bottom of borehole at 40.0 feet.								

Annular Seal

Filter Pack

Screen Tip Elevation



BORING LOG

BORING BRGWA-5I/PZ-05 I

Page 1 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 4/2/2014 COMPLETED 4/3/2014 GROUND ELEVATION 441.1 ft COORDINATES N 1170183.7 E 2549408

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger; Casing Advance; HQ EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 61.2 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 10 ft. after 250 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			441.1				Top of casing Elev. = 443.79
0							Surface Seal
5		residuum damp, very stiff, silty CLAY, red with yellow-red mottles					
10		residuum damp, medium stiff, silty CLAY, red with yellow-red and black mottles					
15		saprolite very damp, soft, silty CLAY, yellow-red with black mottles, mica	425.1				
20		saprolite wet, soft, clayey SILT, red-yellow with black mottles					
25		saprolite wet, medium stiff, clayey SILT, yellow-brown with black mottles, mica					Annular Fill
30		saprolite wet, stiff, clayey SILT, brown-gray with black mottles					
35		saprolite wet, very stiff, sandy SILT, gray with white mottles					
40		saprolite wet, hard, sandy SILT, gray with white mottles					
45		----auger refusal----	397.2 396.4				

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE GDT - 10/29/20 14:45 - \\ALTRCFP01\APARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ



BORING LOG

BORING BRGWA-5I/PZ-05 I

Page 2 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA	
				75	150	225	Top of casing Elev. = 443.79	
			441.1				(CONTINUED)	
		Amphibolite GNEISS fine to medium grain, moderately weathered, massive, numerous fractures, black and white grains, boulder Soft material, norecovery	394.8					Annular Fill Annular Seal
50		Amphibolite GNEISS fine to coarse grain, not to moderately weathered, massive, numerous fractures, light gray partially weathered rock, then coarse grained weathered amphibolite						Filter Pack
55		fine to medium grain, not to highly weathered, massive, numerous fractures, gray to dark gray, light gray banding						
60		fine to medium grain, not to slightly weathered, massive, fractures 58-59 ft., gray, light gray banding, pyrite						
		fine to medium grain, not to slightly weathered, massive, fractures 60-61 ft., gray, light gray banding, pyrite	379.9					Screen Tip Elevation

Bottom of borehole at 61.2 feet.



BORING LOG

BORING BRGWA-6S/PZ-06 S

Page 1 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 4/1/2014 COMPLETED 4/1/2014 GROUND ELEVATION 455.8 ft COORDINATES N 1170732.9 E 2551540.8

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 51 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 24.9 ft. after 300 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			455.8				Top of casing Elev. = 458.96
5		residuum dry, very stiff, CLAY, red					
10		residuum dry, medium stiff, silty CLAY, red with yellow-red mottles					
15		saprolite dry, medium stiff, clayey SILT, red with red-yellow and black mottles, micas	442.8				
20		saprolite dry, medium stiff, clayey SILT, red with red-yellow and black mottles, micas					
25		saprolite wet, soft, clayey SILT, brown-yellow with black mottles, micas	431.8				
30		saprolite wet, soft, clayey SILT, brown-yellow with black mottles, micas					
35		saprolite wet, medium stiff, clayey SILT, brown-yellow with black mottles, micas					
40		saprolite wet, medium stiff, clayey SILT, brown-yellow with black mottles, micas					Annular Seal Filter Pack
45		saprolite wet, medium stiff, clayey SILT, brown-yellow with black mottles, micas					

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE GDT - 10/29/20 14:45 - \\ALTRCFP01\APARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ

(Continued Next Page)



BORING LOG

BORING BRGWA-6S/PZ-06 S

Page 2 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	Top of casing Elev. = 458.96
..... 50		saprolite wet, stiff, clayey SILT, olive-yellow with gray mottles, sand (Cont)	455.8				 (CONTINUED) Screen Tip Elevation
		saprolite wet, medium stiff, clayey SILT, olive-gray with brown mottles	404.8				

Bottom of borehole at 51.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\PIANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-23S/BRGWA-23S

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 41.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/25/16
 DATE COMPLETED: 7/26/16

NORTHING: 1,162,971.70
 EASTING: 2,557,868.10
 GS ELEVATION: 425.5
 TOC ELEVATION: 428.24 ft

DEPTH W.L.: 27.2
 ELEVATION W.L.: 401.22
 DATE W.L.: 7/25/16
 TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	425	0.00 - 5.00 SILT, NP, reddish brown, white mottling, highly weathered, massive, friable, relic foliation structure micaceous, SAPROLITE; cohesive, dry, very stiff	ML		425.0	1		5.00 5.00		WELL CASING Interval: 0'-30.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 30.8'-40.8' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 27.5'-40.0' Type: 27.5'-28.5', 30/45 fine sand; 28.5'-40.0', #1 sand FILTER PACK SEAL Interval: 22.5'-27.5' Type: 22.5'-25.5', 3/8" Bentonite Chips; 25.5'-27.5', Bentonite Pellets ANNULUS SEAL Interval: 2.0'-22.5' Type: Portland Cement (Type I) WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic
5	420	5.00 - 19.00 SILT, low plasticity; reddish brown, white mottling, massive, semi-friable, micaceous, SAPROLITE; cohesive, moist, soft			420.5					
10	415		406.5	3	5.00 5.00					
15	410		19.00 405.5	4	5.00 5.00					
20	405	19.00 - 20.00 trace fine-coarse subangular sand, pinkish brown 20.00 - 28.00 NP, well graded; reddish brown, light brown, dark grey, white mottling, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft	20.00	5	5.00 5.00					
25	400		397.5	6	5.00 5.00					
30	395	28.00 - 31.40 silty SAND, fine grained sand, NP, trace coarse subangular grain sand; reddish brown, white mottling, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft	28.00	7	5.00 5.00					
35	390	31.40 - 35.00 SAND, poorly graded, very fine grained, few silt, trace subangular medium grain sand; light grey, brown, white mottling, medium weathered, massive, micaceous, SAPROLITE; non-cohesive, moist, loose	394.1							
35	390	35.00 - 37.00 SAND, poorly graded, fine grained, trace silt; light grey brown, white mottling, highly weathered quartz nodules, heterogenous, micaceous, SAPROLITE; NC, moist-wet, very loose	390.5	8	2.00 2.00					
40	385	37.00 - 40.50 TRANSITIONALLY WEATHERED ROCK, biotite GNEISS, moderately weathered, banded, dark grey, coarsely crystalline, strong rock, iron oxide staining, Sand part of weathered matrix	388.5	9	4.00 4.00					
40	385	40.50 - 41.00 BEDROCK, biotite GNEISS, slightly weathered, banded, grey to light tan, medium crystalline, highly competent rock Boring completed at 41.00 ft	37.00 385							

BOREHOLE RECORD PLANT BRANCH LOGS2 SURVEY UPDATED.GPJ_PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



RECORD OF BOREHOLE PZ-25I/BRGWC-25I

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 21.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/24/16
 DATE COMPLETED: 7/25/16

NORTHING: 1,160,583.70
 EASTING: 2,561,315.10
 GS ELEVATION: 355.0
 TOC ELEVATION: 357.37 ft

DEPTH W.L.: 5.5
 ELEVATION W.L.: 351.96
 DATE W.L.: 7/24/16
 TIME W.L.: 9:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
0	355	0.00 - 3.30 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, massive, micaceous, regolith; cohesive, dry (perched water~2.0'-2.8'), firm	ML		351.7	1		5.00 5.00	<p>Portland Type 1</p> <p>3/8" Bentonite Chips</p> <p>3/8" Bentonite Pellets #1 30/45 FineSand</p> <p>#1 Coarse Sand</p> <p>0.010" Screen Slot</p> <p>#1 Sand</p>	<p>WELL CASING Interval: 0'-10.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 10.5'-20.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 7.5'-20.5' Type: 7.5'-8.5': 30/45 fine sand; 8.5'-20.5', #1 sand</p> <p>FILTER PACK SEAL Interval: 2.5'-7.5' Type: 2.5'-5.5': 3/8" Bentonite Chips; 5.5'-7.5', 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 2.0'-2.5' Type: Portland Cement (Type I)</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>
5	350	3.30 - 4.00 TRANSITIONALLY WEATHERED ROCK, Moderately weathered, massive, opaque white, slightly yellow, very coarsely crystalline, medium strong, biotite GNEISS, veined, quartz, feldspar, vuggy	TWR ML		351 350 5.00					
		4.00 - 5.00 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, massive, micaceous, regolith; cohesive, dry, firm			348 7.00					
		5.00 - 7.00 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, massive, micaceous, regolith; cohesive, moist, firm	MLS		345.5					
10	345	7.00 - 9.50 sandy SILT, low plasticity, subangular medium-coarse grain; reddish light brown with light brown mottling, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, loose	SM		10.00	2		5.00 10.00		
		9.50 - 10.00 silty SAND, angular medium-coarse grain, well graded, NP; medium reddish brown, slightly weathered, massive, micaceous, SAPROLITE; NC, moist, very loose			340 15.00 339 16.00					
15	340	10.00 - 15.00 silty SAND, well graded, angular fine-coarse grain, NP, trace subangular coarse gravel; medium reddish brown, medium weathered, massive, micaceous, SAPROLITE; NC, moist, loose	PWR		15.00 339 16.00					
		15.00 - 16.00 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated, dark grey, pink, opaque off-white, fine-coarsely crystalline, highly competent rock, weathered granitic biotite GNEISS, intensely fractured, saturated rock, discontinuities normal to core axis	GNEISS		335 20.00 334	3		5.00 15.00		
20	335	16.00 - 20.00 Fresh, foliated, dark grey, white, medium-coarsely crystalline, strong rock, biotite GNEISS, intensely fractured	GNEISS		20.00 334					
		20.00 - 21.00 No Recovery				4		1.00 16.00		
		Boring completed at 21.00 ft								
25	330					5		4.00 21.00		
30	325									
35	320									
40	315									
45	310									
50	305									

BOREHOLE RECORD PLANT BRANCH LOGS2 SURVEY UPDATED.GPJ - PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Scotty Vermillion

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-27S/BRGWC-27I

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 24.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/21/16
 DATE COMPLETED: 7/22/16

NORTHING: 1,159,695.30
 EASTING: 2,559,712.20
 GS ELEVATION: 364.0
 TOC ELEVATION: 366.86 ft

DEPTH W.L.: 3.45
 ELEVATION W.L.: 364.54
 DATE W.L.: 7/22/16
 TIME W.L.: 15:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 No Recovery; Hydrovac								WELL CASING Interval: 0'-14' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 14'-24' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 9.0'-24' Type: 9.0'-10.0', 30/45 fine sand; 10.0'-23.5', #1 sand FILTER PACK SEAL Interval: 4.0'-9.0' Type: 4.0'-7.0', 3/8" Bentonite Chips; 7.0'-9.0', Bentonite Pellets ANNULUS SEAL Interval: 0.0'-4.0' Type: Portland Cement (Type I) WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A Hydrovac left standing water at 3.45'
5	360					1	0.00 10.00			
10	355	10.00 - 15.00 SAND with CLAY, medium plasticity, medium-coarse sand, trace fine angular gravel; moderate reddish brown (10R 4/6), moderately weathered, massive, micaceous, SAPROLITE; cohesive, wet, firm	SP-SC	[Graphic Log]	10.00					
15	350	15.00 - 17.50 lean CLAY, medium plasticity, some silt, trace medium grain angular sand; medium reddish brown (10R 4/6), moderate orange pink (5YR 8/4), moderately weathered, laminated, micaceous, SAPROLITE; cohesive, wet, dense	CL	[Graphic Log]	15.00					
17.50	345	17.50 - 18.30 SILT, non-plastic, coarse angular sand, fine angular gravel; moderate reddish brown (10R 4/6), moderately weathered, massive, micaceous, SAPROLITE; non-cohesive, wet, loose	ML	[Graphic Log]	18.30	2	5.00 15.00			
20	340	18.30 - 20.00 lean CLAY, medium plasticity, some silt, trace medium grain angular sand; medium reddish brown (10R 4/6), moderate orange pink (5YR 8/4), moderately weathered, laminated, micaceous, SAPROLITE; cohesive, wet, dense	CL	[Graphic Log]	20.00					
22.00	335	20.00 - 22.00 silty SAND, medium-coarse angular sand, NP, trace subrounded cobbles; moderate brown (5YR 4/4), moderately weathered, massive, micaceous, SAPROLITE; NC, wet, very loose	SM	[Graphic Log]	20.00					
25	330	22.00 - 22.50 gravelly SAND, fine-coarse grain sand, well graded, coarse sub rounded gravel, trace silt; light brown (5YR 5/6), slightly weathered, massive, quartzitic, micaceous, SAPROLITE; NC, wet, very loose	SW	[Graphic Log]	23.00	3	5.00 20.00			
27.50	325	22.50 - 23.00 silty SAND, fine-medium grain, well graded, subrounded, trace subrounded coarse quartz gravel; light brown (5YR 6/4) mottled with pale brown (5YR 5/2), lightly weathered, relic foliation structures, micaceous, SAPROLITE; NC, moist, loose	SM	[Graphic Log]	23.00					
30	320	23.00 - 24.00 No Recovery				4	4.00 24.00			
		Boring completed at 24.00 ft								

BOREHOLE RECORD PLANT BRANCH LOGS2 SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Scotty Vermillion

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-291/BRGWC-291

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 21.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/22/16
 DATE COMPLETED: 7/23/16

NORTHING: 1,160,297.60
 EASTING: 2,561,050.20
 GS ELEVATION: 350.6
 TOC ELEVATION: 353.23 ft

DEPTH W.L.: 6.56
 ELEVATION W.L.: 346.74
 DATE W.L.: 7/24/2016
 TIME W.L.: 06:52

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	350	0.00 - 1.00 TOPSOIL, SILTY SAND, some organic matter; dark brown; moist	SM		349.6	1		5.00 5.00	Concrete	WELL CASING Interval: 0.0'-10.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		1.00 - 7.00 Sandy SILT sub-angular fine sand; brown-orange, relic foliation present, SAPROLITE; moist, loose	ML		1.00					
5	345				343.6	2	5.00 5.00	30/45 Sand	WELL SCREEN Interval: 10.0'-20.0' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC	
		7.00 - 8.00 SILTY SAND, micaceous; densely foliated, SAPROLITE; Dense	SM		7.00 342.6					
10	340	8.00 - 20.00 TRANSITIONALLY WEATHERED ROCK, highly weathered (W4), densely foliated, white-black, medium grained, weak (R2) with some strong (W4) fresh sections, BIOTITE GNEISS, with biotite, quartz and some weathered feldspars	TWR		8.00	3	2.50 5.00	#1 Sand	FILTER PACK Interval: 7.0'-21.0' Type: 7.0'-8.0' 30/45 Sand - 8.0'-21.0' #1 Sand	
15	335				330.6	4	1.00 5.00	0.010" Screen Slot	FILTER PACK SEAL Interval: 2.0'-7.0' Type: 2.0'-5.0' 3/8" Bentonite Chips - 5.0'-7.0' 3/8" Bentonite Pellets	
20	330	20.00 - 21.00 No recovery			20.00 329.6	5	0.00 1.00	#1 Sand	ANNULUS SEAL Interval: 0.0'-2.0' Type: Concrete	
		Boring completed at 21.00 ft								
25	325								WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum	
30	320									
35	315								DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A	
40	310									
45	305									

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Ray Whitt

GA INSPECTOR: Mike Smiley, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-30I/BRGWC-30I

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 20.25 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/18/16
 DATE COMPLETED: 7/18/16

NORTHING: 1,161,607.60
 EASTING: 2,557,691.80
 GS ELEVATION: 350.0
 TOC ELEVATION: 352.61 ft

DEPTH W.L.: 1.55
 ELEVATION W.L.: 350.78
 DATE W.L.: 7/20/2016
 TIME W.L.: 08:57

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	350	0.00 - 4.70 Sandy CLAYEY SILT, low plasticity fines, fine to medium sub-angular sand, trace organics (roots); moderate reddish brown (10YR 4/6), cohesive, w<PL, soft	ML							WELL CASING Interval: 0'-10' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 10'-20' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 7.0'-20.25' Type: 7.0'-8.0' 30/45 Sand - 8.0'-20.25' #1 Sand FILTER PACK SEAL Interval: 2.0'-7.0' Type: 2.0'-5.0' 3/8" Bentonite Chips - 5.0'-7.0' 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-2' Type: Concrete WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
5	345	4.70 - 6.60 Sandy SILTY CLAY, medium plasticity fines, fine sand; grayish blue green (5BG 5/2) to light blue gray (5B 7/1) mottled with moderate yellowish brown (10YR 5/4) and white (N9), cohesive, w~PL, firm	CL		345.3 4.70	1		8.00 10.00		
		6.60 - 6.80 SAND, fine to medium sub-angular sand, non-plastic fines; greenish gray (5G 6/1) to pale olive (10Y 6/2), non-cohesive, moist, loose	SP		343.4 6.80					
		6.80 - 7.40 Sandy SILTY CLAY, medium plasticity fines, fine sand; grayish blue green (5BG 5/2) to light blue gray (5B 7/1) mottled with moderate yellowish brown (10YR 5/4) and white (N9), cohesive, w~PL, firm	CL		342.6 7.40					
10	340	7.40 - 10.50 Silty SAND, fine to coarse well graded sub-angular sand, low plasticity fines, trace fine sub-angular gravels; dark yellowish orange (10YR 6/6) to very pale orange (10YR 8/2), SAPROLITE; non-cohesive, moist, compact	SM		339.5 11.10					
		10.50 - 11.10 SAND, fine to medium sub-angular sand, trace non-plastic fines, trace fine angular gravels; dusky brown (5YR 2/2) to moderate brown (5YR 4/4), highly weathered (W4), quartz, biotite, and weathered micaceous grains, SAPROLITE; non-cohesive, moist, dense	SP		338.9 11.10					
		11.10 - 13.90 SAND, fine angular sand, some non-plastic fines, trace fine angular gravels; dark yellowish orange (10YR 6/6) and grayish orange (10YR 7/4), highly weathered (W4), weathered micaceous grains, quartz, and biotite, SAPROLITE; non-cohesive, wet, very dense	SP-SM		336.1 13.90	2		7.00 7.00		
		13.90 - 15.40 SAND, fine to coarse angular sand, trace non-plastic fines, some fine to coarse soft angular gravel (core stones); moderate yellowish brown (10YR 5/4) mottled white (N9) and pale olive (10YR 6/2), moderately to highly weathered (W3 to W4), weathered micaceous grains, quartz, plagioclase, biotite, SAPROLITE; non-cohesive, wet, very dense	SW		334.6 15.80					
		15.40 - 15.80 TRANSITIONALLY WEATHERED ROCK, fine to coarse angular sand, fine to coarse angular gravels (core stones), trace non-plastic fines; light gray (N7), slightly to moderately weathered (W2-W3), quartz, biotite and weathered micaceous grains, non-cohesive, wet, very dense	TWR		333.2 16.80					
		15.80 - 16.80 Slightly weathered (W2), medium bedded, light olive gray (5Y 5/2) to medium light gray (N7), fine grained, slightly porous, weak rock (R2), GNEISS, some weathering staining, quartz, biotite and weathered micaceous grains.	GNEISS		330 20.00	3		2.80 3.00		
		16.80 - 20.00 Slightly weathered (W2), medium to thin wavy foliated, medium to coarse grained, white (N1) and grayish black (N2) with some dark yellowish orange (10YR 6/6) weathered surfaces, slightly porous (fracture surfaces), medium strong to strong (R3 to R4), BIOTITE GNEISS, with biotite, quartz, hornblende, frequent weathering surfaces								
		17.00: (17.0) fresh (W1), occasional weathered surfaces								
		Boring completed at 20.25 ft								

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-32S/BRGWC-32S

SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 45.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/19/16
 DATE COMPLETED: 7/20/16

NORTHING: 1,160,677.70
 EASTING: 2,558,497.90
 GS ELEVATION: 403.6
 TOC ELEVATION: 406.39 ft

DEPTH W.L.: 30.05
 ELEVATION W.L.: 322.28
 DATE W.L.: 7/22/2016
 TIME W.L.: 08:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 0.70 TOPSOIL, SILTY SAND, fine poorly graded sand, non-plastic fines, some organics (roots); dark yellowish brown (10YR 4/2); non-cohesive, dry, loose	SM		402.9 0.70				WELL CASING Interval: 0.0'-35' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 35'-45' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 32.0'-45.15' Type: 32.0'-33.0' 30/45 Sand - 33.0'-45.15' #1 Sand FILTER PACK SEAL Interval: 27.0'-32.0' Type: 27.0'-30.0' 3/8" Bentonite Chips - 30.0'-32.0' 3/8" Bentonite Pellets ANNULUS SEAL Interval: 3'-27' Type: Portland Cement (Type II) WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
400		0.70 - 8.30 non-plastic to low plasticity fines, trace organics (roots); moderate reddish brown (10R 4/6), completely weathered (W5), some weathered micaceous grains, SAPROLITE; non-cohesive, moist, loose				1	8.80 10.00		
395		8.30 - 17.90 fine to coarse well graded angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (core stones); pale yellowish brown (10YR 6/2), light brown (5YR 5/6) and black (N1), highly to completely weathered (W4 to W5), some relic foliations in core stones, weathered micaceous grains, quartz, biotite, SAPROLITE; non-cohesive, moist, compact			395.3 8.30				
10						2	7.90 10.00	Portland Cement (Type II)	
390									
15									
385		17.90 - 19.10 fine to coarse well graded angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (core stones); layers of dark yellowish orange (10YR 6/6), pale yellowish brown (10YR 6/2), pale reddish brown (10R 5/4) mottled black (N1) and white (N9), highly weathered (W4), some relic foliations in core stones, weathered micaceous grains, biotite, quartz, SAPROLITE; non-cohesive, moist, compact			385.7 17.90 384.5 19.10				
20						3	10.00 10.00		
380		19.10 - 28.50 (SP-SM) SAND, fine to coarse sub-angular sand, non-plastic to low plasticity fines, some soft angular gravels (core stones); pale yellowish brown (10YR 6/2), white (N9), and black (N1), highly weathered (W4), some relic foliations in core stones, weathered micaceous grains, biotite, quartz, SAPROLITE; non-cohesive, moist, Dense 25.00: (25.0) some white (N9) fresh quartz pockets	SP-SM						
25									
375		28.50 - 30.00 SILTY SAND, fine to medium sub-angular poorly graded sand, non-plastic to low plasticity fines; light brown (5YR 5/6) black (N1), and pale yellowish brown (10YR 6/2), highly weathered (W4), some relic foliations, biotite, quartz, weathered micaceous grains, SAPROLITE; non-cohesive, moist, dense	SM		375.1 28.50 373.6 30.00			3/8" Bentonite Chips	
30			SC					3/8" Bentonite Pellets	
370		30.00 - 32.00 CLAYEY SAND, fine sand, medium plasticity fines; pale yellowish brown (10YR 6/2), to light olive gray (5Y 5/2) mottled black (N1) and white (N9), some relic foliations, weathered micaceous grains, biotite, quartz, SAPROLITE; cohesive, w-PL, hard			371.6 32.00			30/45 Sand	
35		32.00 - 38.70 SAND, fine sand, non-plastic fines; light brown (5YR 5/6), black (N1) and pale yellowish brown (10YR 6/2), highly weathered (W4), weathered micaceous grains, SAPROLITE; non-cohesive, wet, loose	SP-SM			4	10.00 10.00	#1 Sand	
365									
40		38.70 - 40.00 SAND, fine to coarse sub-angular sand, trace non-plastic fines; pale yellowish brown (10YR 6/2) mottled white (N9) and Black (N1), moderately weathered (W3), some foliation layers, SAPROLITE; non-cohesive, wet, dense	SW		364.9 38.70 363.6 40.00			0.010" Screen Slot	
360		40.00 - 42.50 SANDY SILT, fine sand, low plasticity fines; light olive gray (5Y 5/2), completely weathered rock (W6), weathered micaceous grains, biotite, quartz, SAPROLITE; cohesive, w-PL, firm	ML			5	5.00 5.15		
45		42.50 - 45.00 SAND, fine to medium angular sand, trace non-plastic fines; pale yellowish brown (10YR 6/2), some relic foliations, weathered	SP		361.1 42.50 358.6				

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-32S/BRGWC-32S

SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 45.00 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/19/16
 DATE COMPLETED: 7/20/16

NORTHING: 1,160,677.70
 EASTING: 2,558,497.90
 GS ELEVATION: 403.6
 TOC ELEVATION: 406.39 ft

DEPTH W.L.: 30.05
 ELEVATION W.L.: 322.28
 DATE W.L.: 7/22/2016
 TIME W.L.: 08:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
45		micaceous grains, biotite, quartz, SAPROLITE; non-cohesive, wet, dense Boring completed at 45.00 ft						#1 Sand	<p>WELL CASING Interval: 0.0'-35' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 35'-45' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 32.0'-45.15' Type: 32.0'-33.0' 30/45 Sand - 33.0'-45.15' #1 Sand</p> <p>FILTER PACK SEAL Interval: 27.0'-32.0' Type: 27.0'-30.0' 3/8" Bentonite Chips - 30.0'-32.0' 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 3'-27' Type: Portland Cement (Type II)</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A</p>
355									
50									
350									
55									
345									
60									
340									
65									
335									
70									
330									
75									
325									
80									
320									
85									
315									
90									

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-45/BRGWC-45

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 57.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/3/18
 DATE COMPLETED: 2/3/18

NORTHING: 1,162,229.80
 EASTING: 2,561,075.50
 GS ELEVATION: 381.6
 TOC ELEVATION: 384.58 ft

DEPTH W.L.: 11.41
 ELEVATION W.L.: 370.19
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	380	0.00 - 8.00 Soils removed by Hydrovac from 0-8 feet bgs.						Grout mix with stainless steel casing	WELL CASING Interval: 0-46.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 46.6-56.6 Material: 0.010 Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 56.6-57 FILTER PACK Interval: 45-57 Type: FilterSil FILTER PACK SEAL Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-40 Type: Portland Cement/Quikrete Grout Mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
5	375			373.6					
10	370	8.00 - 33.00 Fill, Silty Sand, orangish brown, non-cohesive, moist.		8.00				Portland Cement/Quikrete grout mix	
15	365		SM						
20	360								
25	355								
30	350								
35	345	33.00 - 52.00 Saprolite, Sand, reddish brown with white and black relic foliation, non cohesive, moist.		348.6 33.00					
40			SP						

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-45/BRGWC-45

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 57.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/3/18
 DATE COMPLETED: 2/3/18

NORTHING: 1,162,229.80
 EASTING: 2,561,075.50
 GS ELEVATION: 381.6
 TOC ELEVATION: 384.58 ft

DEPTH W.L.: 11.41
 ELEVATION W.L.: 370.19
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
340		33.00 - 52.00 Saprolite, Sand, reddish brown with white and black relic foliation, non cohesive, moist. <i>(Continued)</i>							<p>WELL CASING Interval: 0-46.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw</p> <p>WELL SCREEN Interval: 46.6-56.6 Material: 0.010 Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 56.6-57</p> <p>FILTER PACK Interval: 45-57 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-40 Type: Portland Cement/Quikrete Grout Mix</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5'</p> <p>DRILLING METHODS Soil Drill: Rotasonic Rock Drill: Core</p>
45			SP				FilterSil		
335									
50							0.010" Slotted Schedule 40 PVC		
330		52.00 - 57.00 BIOTITE GNEISS, moderately weathered to fresh, oxide staining, thinly bedded, black and white, phaneritic, extremely weak to strong.			329.6				
55					52.00				
325		Boring completed at 57.00 ft			324.6				
60									
320									
65									
315									
70									
310									
75									
305									
80									

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

SHEET 1 of 3

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 97.00 ft
 LOCATION: Between Pond B

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/25/18
 DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
 EASTING: 2,559,456.70
 GS ELEVATION: 408.8
 TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
 ELEVATION W.L.: 382.87
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 0.50 Ash as sand, fine, dark gray, moist, non-cohesive.	SP	[Symbol]	408.3 0.50			Grout Mix with stainless steel casing	WELL CASING Interval: 0-81.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 81.6-91.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 91.6-92 FILTER PACK Interval: 80-93 Type: FilterSil FILTER PACK SEAL Interval: 75-80 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-75 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
15		15.00 - 75.00 Saprolite, silty Sand, reddish brown to grayish brown with intermediate white mottling, relic structure, micaceous, dry to moist, non	SM	[Symbol]	393.8 15.00				
30			SM	[Symbol]				Portland Cement/Quikrete grout mix	

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

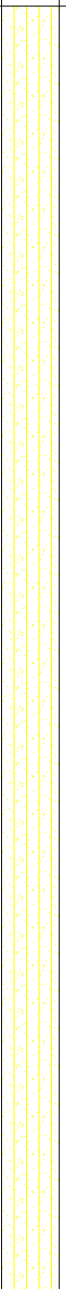

SHEET 2 of 3

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 97.00 ft
 LOCATION: Between Pond B

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/25/18
 DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
 EASTING: 2,559,456.70
 GS ELEVATION: 408.8
 TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
 ELEVATION W.L.: 382.87
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
365 45 360 50 355 55 350 60 345 65 340 70 335 75 330 80		15.00 - 75.00 Saprolite, silty Sand, reddish brown to grayish brown with intermediate white mottling, relic structure, micaceous, dry to moist, non (Continued)	SM						WELL CASING Interval: 0-81.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 81.6-91.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 91.6-92 FILTER PACK Interval: 80-93 Type: FilterSil FILTER PACK SEAL Interval: 75-80 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-75 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
		75.00 - 92.00 Partially Weathered Rock, shows in sample as Sand with trace gravel and silt, grayish brown with white mottling, micaceous, relic foliation where preserved, dry, non-cohesive.	SP		333.8 75.00			3/8" PEL-PLUG Bentonite Pellets FilterSil -	

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

SHEET 3 of 3

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 97.00 ft
 LOCATION: Between Pond B

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/25/18
 DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
 EASTING: 2,559,456.70
 GS ELEVATION: 408.8
 TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
 ELEVATION W.L.: 382.87
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
325		75.00 - 92.00 Partially Weathered Rock, shows in sample as Sand with trace gravel and silt, grayish brown with white mottling, micaceous, relic foliation where preserved, dry, non-cohesive. <i>(Continued)</i>	SP	[Blue triangles]				<p style="font-size: small;">0.010" Slotted Schedule 40 PVC</p> <p style="font-size: small;">3/8" PEL-PLUG Bentonite Pellets</p>	<p>WELL CASING Interval: 0-81.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw</p> <p>WELL SCREEN Interval: 81.6-91.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 91.6-92</p> <p>FILTER PACK Interval: 80-93 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 75-80 Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-75 Type: Portland Cement/Quikrete grout mix</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5'</p> <p>DRILLING METHODS Soil Drill: Rotasonic Rock Drill: Core</p>
315		92.00 - 97.00 BIOTITE GNEISS, sample recovered as rock flour, cobbles, and gravel. Slightly weathered to fresh, white and black, thinly bedded, phaneritic, strong.	GP	[Red wavy lines]	316.8 92.00				
		Boring completed at 97.00 ft			311.8				

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-50/BRGWC-50

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 67.00 ft
 LOCATION: South boundary of site

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/31/18
 DATE COMPLETED: 1/31/18

NORTHING: 1,161,593.30
 EASTING: 2,562,372.90
 GS ELEVATION: 378.8
 TOC ELEVATION: 381.35 ft

DEPTH W.L.: 37.68
 ELEVATION W.L.: 341.12
 DATE W.L.: 2/14/19
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 7.00 Soil removed by Hydrovac from 0-7 ft bgs, but logged by sight. silty Sand, reddish brown, micaceous, moist, non-cohesive.	SM						Grout mix and stainless steel casing	WELL CASING Interval: 0-54.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 54.6-64.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 64.6-65 FILTER PACK Interval: 53-66 Type: FilterSil FILTER PACK SEAL Interval: 48-53 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-48 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
375										
5										
370		7.00 - 47.00 Residuum, silty Sand, reddish brown, micaceous, non-cohesive, moist.			371.8 7.00					
10										
15										
365										
20										
25			SM							
30									Portland cement/Quikrete grout mix	
35										
35										
345										
40										

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-50/BRGWC-50

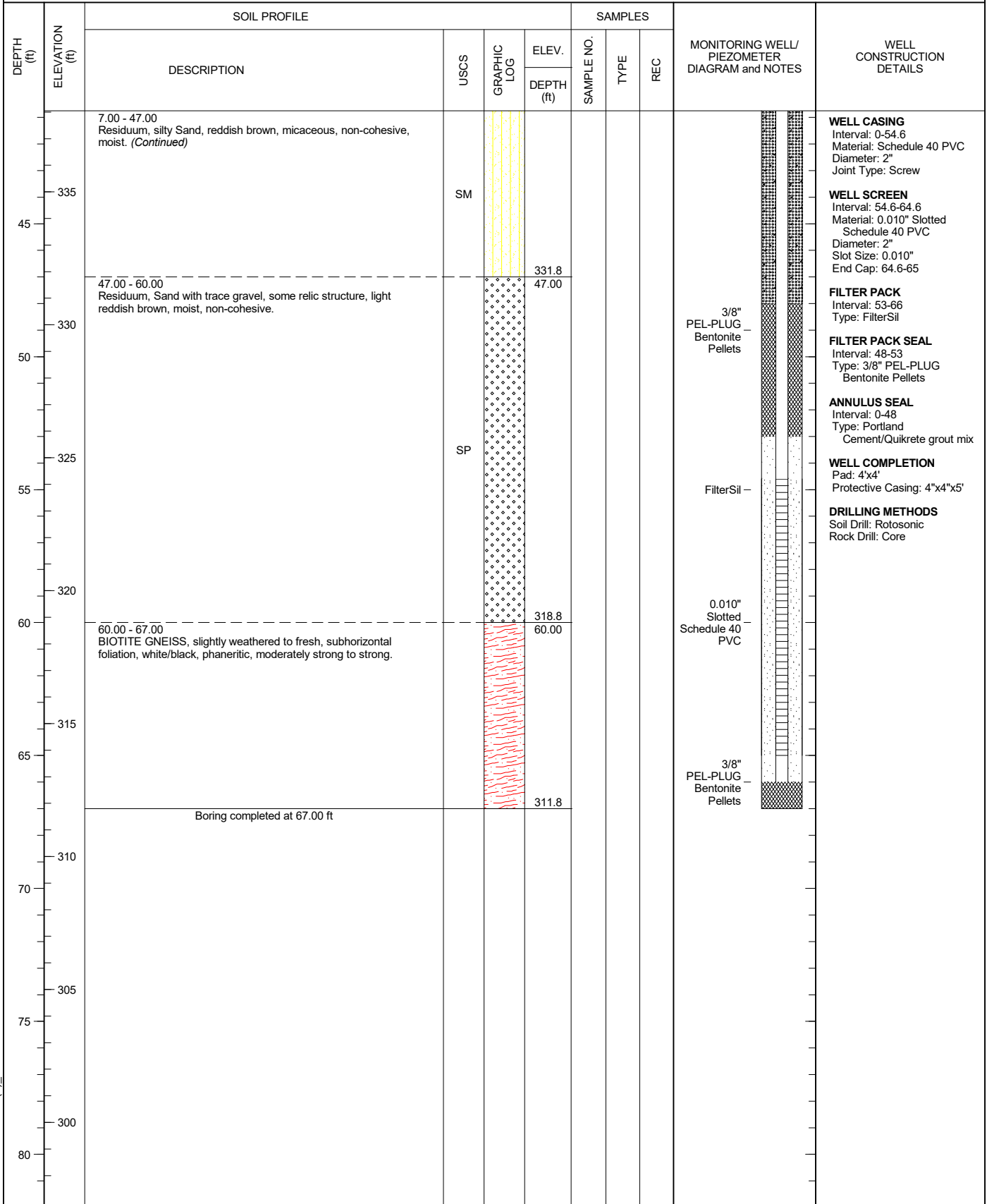
SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 67.00 ft
 LOCATION: South boundary of site

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/31/18
 DATE COMPLETED: 1/31/18

NORTHING: 1,161,593.30
 EASTING: 2,562,372.90
 GS ELEVATION: 378.8
 TOC ELEVATION: 381.35 ft

DEPTH W.L.: 37.68
 ELEVATION W.L.: 341.12
 DATE W.L.: 2/14/19
 TIME W.L.:



BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-521/BRGWC-521

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 75.00 ft
 LOCATION: SE of Pond B

DRILL RIG: 8140LC
 DATE STARTED: 8/6/18
 DATE COMPLETED: 8/6/18

NORTHING: 1,161,275.00
 EASTING: 2,562,145.30
 GS ELEVATION: 381.2
 TOC ELEVATION: 383.87 ft

DEPTH W.L.: 35.99
 ELEVATION W.L.: 345.21
 DATE W.L.: 8/9/2018
 TIME W.L.: 11:45:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	380	0.00 - 8.00 Soil was hydrovacuum to 8 feet								WELL CASING Interval: 0-73.9' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screen WELL SCREEN Interval: 63.9-73.9' Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen Diameter: 2 Slot Size: 0.010 End Cap: 73.9 FILTER PACK Interval: 59.7-73.9 Type: FilterSil FILTER PACK SEAL Interval: 50.4-59.7' Type: 3/8" PEL-PLUG ANNULUS SEAL Interval: 0.50.4' Type: Portland Cement and Quick Gel Bentonite Mix WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5' DRILLING METHODS Soil Drill: Geoprobe Rock Drill: None
		8.00 - 10.00 Loss of material			373.2 8.00					
		10.00 - 18.00 sandy SILT w/ trace gravel, fine to coarse, weathered, micaceous, fill, moist to dry, loose to compact, non-cohesive	MLS		371.2 10.00	S - 1	ROTO SONIC	4.00 10.00		
		18.00 - 20.00 sandy SILT, fine to coarse, weathered, dry, loose, non-cohesive, trace gravel at bottom	MLS		363.2 18.00					
		20.00 - 26.00 sandy SILT with trace gravel, dark brown, micaceous, sand/gravel fine to coarse, loose to compact	MLS		361.2 20.00	S - 2	ROTO SONIC	7.00 10.00		
		26.00 - 30.00 sandy SILT with trace gravel, grey to brown, less micaceous, sand/gravel fine to coarse, moist, compact	MLS		355.2 26.00					
		30.00 - 32.50 sandy SILT with trace gravel, red, sand/gravel fine to coarse, moist, compact, non-cohesive, high plasticity	MLS		351.2 30.00					
		32.50 - 37.00 CLAY with some sand, RED, cohesive, w>PL, stiff to very stiff, sand fine to coarse, high plasticity	CH		348.7 32.50	S - 3	ROTO SONIC	10.00 10.00		
		37.00 - 40.00 sandy SILT, red, w>PL, soft to firm, sand fine to coarse, cohesive, high plasticity	MLS		344.2 37.00					
		Log continued on next page			341.2					

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY_UPDATED-ATL1-L-BSTEELE.GPJ_PIEDMONT.GDT_8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-521/BRGWC-521

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 75.00 ft
 LOCATION: SE of Pond B

DRILL RIG: 8140LC
 DATE STARTED: 8/6/18
 DATE COMPLETED: 8/6/18

NORTHING: 1,161,275.00
 EASTING: 2,562,145.30
 GS ELEVATION: 381.2
 TOC ELEVATION: 383.87 ft

DEPTH W.L.: 35.99
 ELEVATION W.L.: 345.21
 DATE W.L.: 8/9/2018
 TIME W.L.: 11:45:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40	340	40.00 - 45.00 silty SAND with trace gravel and clay, light grey to brown, sand/gravel fine to coarse, non-cohesive, compact to dense, wet	GM		40.00					<p>WELL CASING Interval: 0-73.9' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screen</p> <p>WELL SCREEN Interval: 63.9-73.9' Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen Diameter: 2" Slot Size: 0.010 End Cap: 73.9</p> <p>FILTER PACK Interval: 59.7-73.9 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 50.4-59.7' Type: 3/8" PEL-PLUG</p> <p>ANNULUS SEAL Interval: 0.50.4' Type: Portland Cement and Quick Gel Bentonite Mix</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5'</p> <p>DRILLING METHODS Soil Drill: Geoprobe Rock Drill: None</p>
45	335	45.00 - 47.50 Sandy Clay, red, cohesive, very stiff w> PL, sand, fine, high plasticity	SC		336.2 45.00	S - 4	ROTO SONIC	10.00 10.00		
		47.50 - 50.00 Sandy Clay with trace gravel, red, fine to coarse, cohesive, very firm to stiff, w > PL to w ~ PL, high plasticity	SC		333.7 47.50					
50	330	50.00 - 60.00 BIOTITE GNEISS, fresh to weathered, medium to coarse, banding, black/white, weak to strong	BR		331.2 50.00	S - 5	ROTO SONIC	3.00 3.00		
55	325		BR			S - 6	ROTO SONIC	2.30 7.00		
60	320	60.00 - 70.00 BIOTITE GNEISS, fresh, banded coarse and fine grain, black/white, very strong	BR		321.2 60.00		ROTO SONIC			
65	315		BR			S - 7	ROTO SONIC	6.00 10.00		
70	310	70.00 - 75.00 BIOTITE GNEISS, fresh, banded coarse and fine grain, black/white, very strong	BR		311.2 70.00	S - 8	ROTO SONIC	0.00 5.00		
75	305	Boring completed at 75.00 ft			306.2					

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY_UPDATED-ATL1-L-BSTEELE.GPJ | PIEDMONT.GDT: 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



RECORD OF BOREHOLE IW-B-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 45.00 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/13/16
 DATE COMPLETED: 7/13/16

NORTHING: 1,161,099.78
 EASTING: 2,561,471.97
 GS ELEVATION: 376.06
 TOC ELEVATION: 378.99 ft

DEPTH W.L.: 15.27
 G.W. ELEVATION: 363.72
 DATE W.L.: 7/24/2016
 TIME W.L.: 06:50

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	REC		
					DEPTH (ft)					
0	375	0.00 - 2.00 TOPSOIL, SILT, non-plastic fines, some fine-medium angular sand, some organics (roots); dark yellowish brown (10YR 2/2) to light brown (5YR 5/6); non-cohesive, moist, loose	ML		374.06 2.00				Concrete - 3/8" Bentonite - Pellets	WELL CASING Interval: 0.0'-4.9' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 4.9'-39.9' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 2.5'-42.0' Type: #1 Sand FILTER PACK SEAL Interval: 0.5'-2.5' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-0.5' Type: Concrete WELL COMPLETION Pad: 4'x4' Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
5	370	2.00 - 7.00 FILL, SAND, fine to coarse sub-angular sand; light dark gray (N3), some weathered micaceous grains, ASH; non-cohesive, dry, loose	SW			1	6.30 10.00		#1 Sand -	
10	365	7.00 - 12.00 FILL, Sandy SILT, non-plastic fines, fine sand; dark gray (N2), some 1 cm thick laminated layers, ASH; non-cohesive, moist, compact	ML		369.06 7.00					
15	360	12.00 - 38.00 FILL, SAND, fine poorly graded sand, trace sub-rounded fine gravels, trace non-plastic fines; grayish black (N2), ASH; non-cohesive, moist, compact			364.06 12.00	2	3.10 10.00			
20	355	20.00: wet, trace weathered micaceous grains							0.010" Screen Slot	
25	350	24.00: no micaceous weathered grains	SP			3	9.30 10.00			
30	345					4	10.00 10.00			
35	340				338.06 38.00					
40	335	38.00 - 40.00 FILL, SILTY SAND, fine poorly graded sand, non-plastic fines; medium dark gray (N4) mottled brownish grey (5YR 4/1), ASH; non-cohesive, wet, compact	SM		336.06 40.00				#1 Sand - End Cap	
45		40.00 - 45.00 SILTY CLAY, low to medium plasticity fines, some medium to coarse sub-angular sand, some fine to coarse sub-angular gravels; moderate reddish brown (10YR 4/6), highly weathered (W4), some weathered micaceous grains, SAPROLITE; cohesive, w-PL, very stiff	CL			5	4.60 5.00		#1 Sand - 3/8" Bentonite - Chips	
		Boring completed at 45.00 ft								

BOREHOLE RECORD PLAT BRANCH LOGS GPJ_PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



RECORD OF BOREHOLE IW-B-2

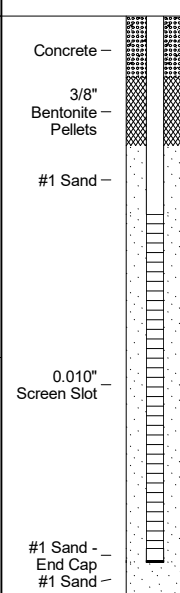
SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 17.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/26/16
 DATE COMPLETED: 7/26/16

NORTHING: 1,162,629.57
 EASTING: 2,560,233.96
 GS ELEVATION: 378.47
 TOC ELEVATION: 381.34 ft

DEPTH W.L.: 3.41
 G.W. ELEVATION: 377.93
 DATE W.L.: 7/26/2016
 TIME W.L.: 10:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 10.00 Hydrovac (No Recovery)	NA		368.47 10.00	1		0.00 10.00	 <p>WELL CASING Interval: 0'-6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 6'-16' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 3.8'-17.0' Type: #1 Sand</p> <p>FILTER PACK SEAL Interval: 1.8'-3.8' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-1.8' Type: Concrete</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A</p>
5									
10		10.00 - 17.00 Sandy SILT; dark grey, moist, soft	ML		361.47	2		NA 7.00	
15									
20		Boring completed at 17.00 ft							
25									
30									
35									
40									
45									

BOREHOLE RECORD PLAT BRANCH LOGS GPJ - PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Aubrey Ellis
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



BORING LOG: MW-C1-06

DEPTH FEET BELOW GROUND SURFACE (BGS)	WELL CONSTRUCTION DIAGRAM	SITE: Plant Branch		LOCATION: Milledgeville, GA			
		BORING NO.: MW-C1-06		BORING DATE: 30-Jan-2018			
		METHOD: DPT / HSA		BIT DIA.: 6.5"			
		TOTAL DEPTH: 35 ft BGS		GROUND EL.: Not Surveyed			
		DRILLING CO.: Geo-Lab		START TIME: 1445			
		DRILLER: Mike & Lat		RIG: Trackmount			
		LOGGER: Robert Mull		REVIEWER: Michael Patinkin			
		LITHOLOGICAL DESCRIPTION	COMMENTS				
↑ 0		0 - 0.3 ft - moss, grass, sandy topsoil, brown	2.3 ft recovery PID: 5.8 ppm				
		0.3 - 2.3 ft - Sandy silt with pockets of Silty clay, brown					
5		5 - 7.5 ft - Clayey silt, red brown	3.1 ft recovery PID: 2.5 ppm				
		7.5 - 8.1 ft - Sandy silt, brown, tan					
10		10 - 13.7 ft - Silty clay and Clayey silt, red brown; pieces of gravel randomly distributed; moist bottom 0.5 ft	3.7 ft recovery PID: 3.6 ppm				
15		▽	15 - 18.4 ft - Clayey silt, brown red	4.2 ft recovery PID: 2.0 ppm			
			18.4 ft - Wet brown clay				
			18.4 - 19.2 ft - Sandy silt, brown; wet				
20			20 - 22.7 ft - Clayey silt, brown to red; wet	4.2 ft recovery Wet			
			22.7 - 24.2 ft - Sandy silt, gray to brown; wet				
25			25 - 29.5 ft - Sandy silt, brown red; wet	4.5 ft recovery Wet			
30			DPT boring terminated @ 30 ft bgs HSA boring terminated / bottom of well @ 35 ft bgs top of screen @ 25 ft bgs sand to 20 ft bgs bentonite seal 18 - 20 ft bgs grout to surface				
↓ 35							

BORING LOG: MW-C2-02

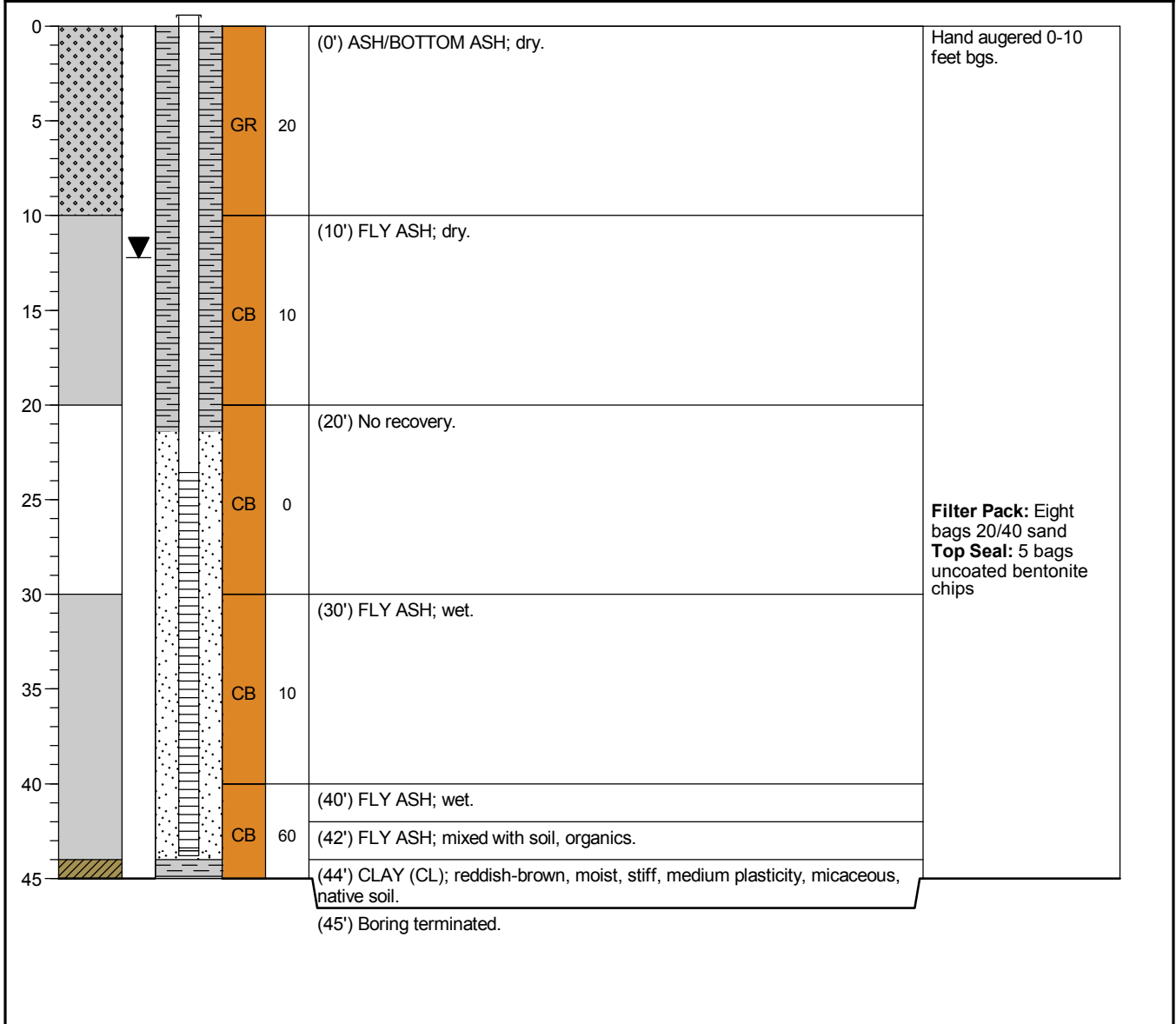
DEPTH FEET BELOW GROUND SURFACE (BGS)	WELL CONSTRUCTION DIAGRAM	SITE: Plant Branch		LOCATION: Milledgeville, GA	
		BORING NO.: MW-C2-02		BORING DATE: 30-Jan-2018	
		METHOD: DPT / HSA		BIT DIA.: 6.5"	
		TOTAL DEPTH: 56.5 ft BGS		GROUND EL.: Not Surveyed	
		DRILLING CO.: Geo-Lab		START TIME: 0935	
		DRILLER: Mike & Lat		RIG: Trackmount	
		LOGGER: Robert Mull		REVIEWER: Michael Patinkin	
		LITHOLOGICAL DESCRIPTION		COMMENTS	
↑ 0		0 - 1.1 ft - Red, brown silty clay, Fill, moist		3.4 ft recovery PID: 300.0 ppm	
		1.1 - 3.4 ft - Sand, gray, white, black; petroleum odor			
5		5 - 9 ft - Sandy silt, gray, black, white; petroleum odor		5 ft recovery PID: 197.7 ppm	
		9 - 10 ft - Clayey silt, red to brown; slight petroleum odor			
10		5 - 9 ft - Sandy silt, gray, black, white; petroleum odor		5 ft recovery PID: 4.7 ppm	
		13.5 - 14.5 ft - Silty clay, red			
		14.5 - 15 ft - Clayey silt, brown			
15		15 - 19.4 ft - Clayey silt, brown, gray, red; some weathered rock		4.4 ft recovery PID: 2.1 ppm	
20		20 - 24.5 ft - Clayey silt, dark brown; leads to silty clay, red		5 ft recovery PID: 10.4 ppm	
		24.5 - 25 ft - Sandy silt, red orange			
25		25 - 26 ft - Sandy silt, red; pocket of mica rich at bottom		4 ft recovery PID: 5.7 ppm	
		26 - 29 ft - Clayey silt, red orange; Saporlite, brown, tan, orange			
30		30 - 33.4 ft - Saporlite, silt to sandy silt where less weatherd, brown, tan, orange		3.4 ft recovery PID: 3.6 ppm	
35		35 - 38.3 ft - Silt, mica rich, brown, tan, orange		4.4 ft recovery PID: 5.7 ppm	
↓ 40		38.3 - 39.4 ft - Saporlite, silty sand, white. Black, gray			

BORING LOG: MW-C2-02

DEPTH FEET BELOW GROUND SURFACE (BGS)	WELL CONSTRUCTION DIAGRAM	SITE: Plant Branch BORING NO.: MW-C2-02 METHOD: DPT / HSA TOTAL DEPTH: 56.5 ft BGS DRILLING CO.: Geo-Lab DRILLER: Mike & Lat LOGGER: Robert Mull	LOCATION: Milledgeville, GA BORING DATE: 30-Jan-2018 BIT DIA.: 6.5" GROUND EL.: Not Surveyed START TIME: 0935 RIG: Trackmount REVIEWER: Michael Patinkin		
		LITHOLOGICAL DESCRIPTION	COMMENTS		
↑ 40 45 50 55		40 - 44 ft - Saporlute; Silt, sandy silt and sand with less weathered material 45 - 50 ft - Saporlute, silt to sandy silt and sand in less weathered material DPT boring terminated @ 50 ft bgs HSA boring terminated / bottom of well @ 56.5 ft bgs top of screen @ 46.5 ft bgs sand to 44 ft bgs bentonite seal 42 - 44 ft bgs grout to surface	4 ft recovery PID: 3.1 ppm 5 ft recovery PID: 4.7 ppm		

Drilling Start Date: 05/23/2023	Boring Depth (ft): 45	Well Depth (ft TOC): 43.8
Drilling End Date: 05/23/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 12.23	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150C	Ground Surface Elevation: NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: B. Griffis	Top of Casing Elevation: 377.72 NAV88	Seal Material(s): Bentonite
Logged By: D. Kegley	North, East (Y,X): 1161612.24, 2561277.94	Filter Pack: 20/40 Sand

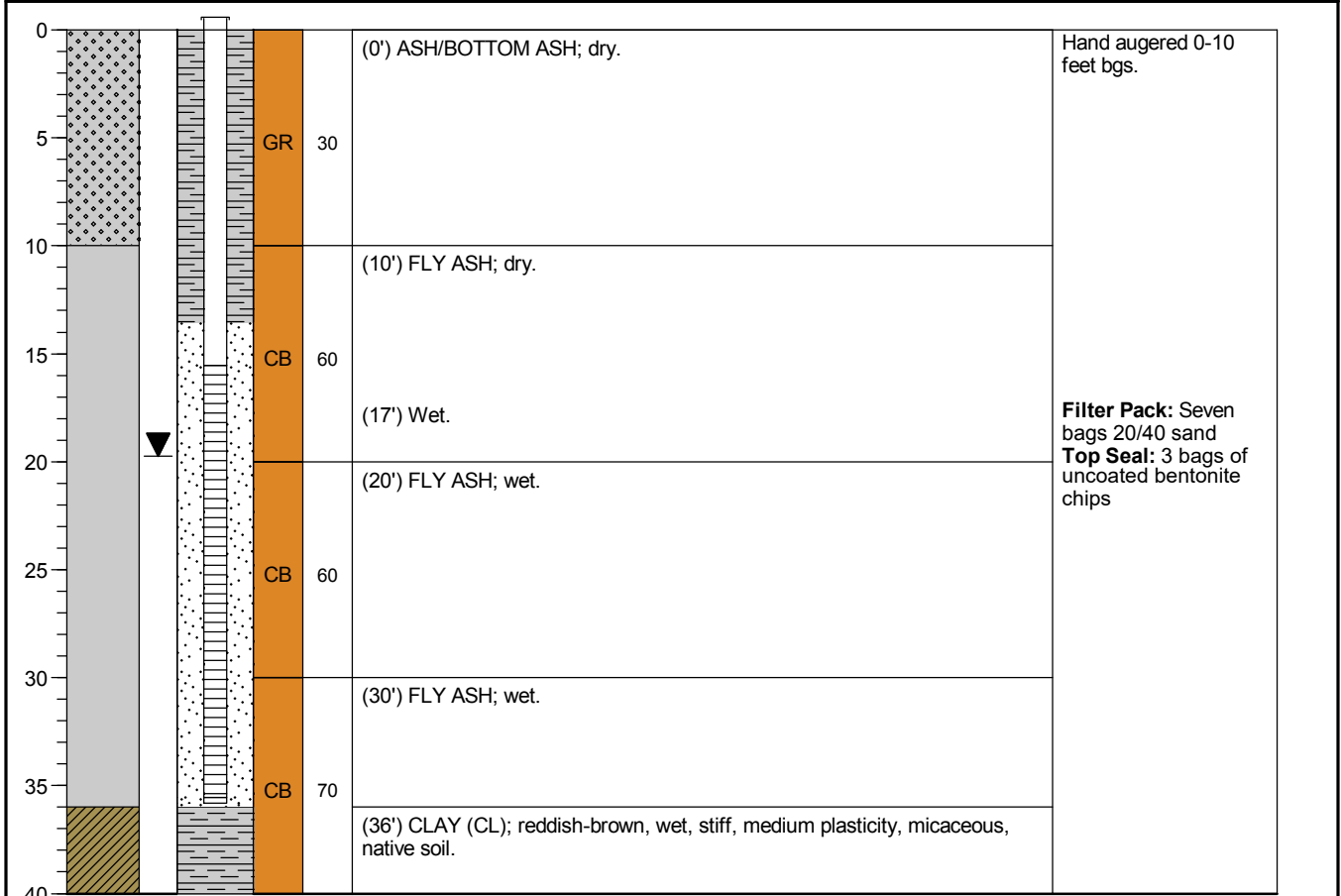
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

Drilling Start Date: 05/23/2023	Boring Depth (ft): 40	Well Depth (ft TOC): 35.8
Drilling End Date: 05/23/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 19.75	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150C	Ground Surface Elevation: NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: B. Griffis	Top of Casing Elevation: 379.34 NAV88	Seal Material(s): Bentonite
Logged By: D. Kegley	North, East (Y,X): 1161586.67, 2561485.1	Filter Pack: 20/40 Sand

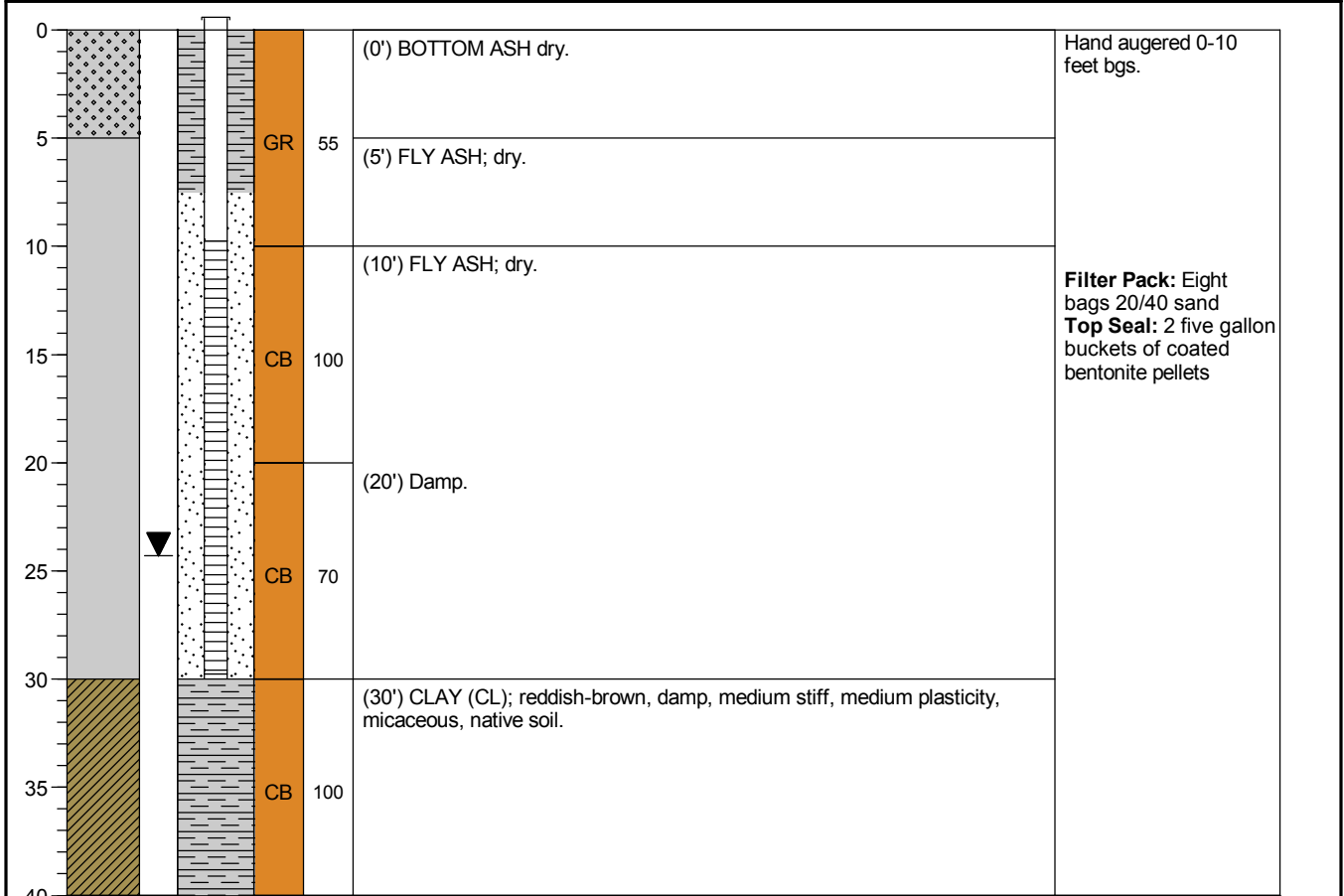
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

Drilling Start Date: 05/22/2023	Boring Depth (ft): 40	Well Depth (ft TOC): 30
Drilling End Date: 05/22/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 24.3	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150C	Ground Surface Elevation: NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: C. Tindel	Top of Casing Elevation: 382.33 NAV88	Seal Material(s): Bentonite
Logged By: D. Kegley	North, East (Y,X): 1161559.75, 2561669.23	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

RECORD OF BOREHOLE IW-C-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 25.00 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/15/16
 DATE COMPLETED: 7/15/16

NORTHING: 1,161,547.41
 EASTING: 2,559,186.94
 GS ELEVATION: 395.28
 TOC ELEVATION: 398.28 ft

DEPTH W.L.: 5.11
 G.W. ELEVATION: 393.17
 DATE W.L.: 7/27/2016
 TIME W.L.: 06:32

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	395	0.00 - 1.70 FILL, Sandy SILT, non-plastic fines, fine sand, some organics (roots), trace fine weathered micaceous grains; medium dark gray (N4), some 1 cm thick laminated layers, ASH; non-cohesive, moist, loose	ML		393.58				Concrete	WELL CASING Interval: 0.0'-8.9' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		1.70 - 2.70 FILL, SAND, fine to medium sub-angular sand, trace non-plastic fines, trace fine angular gravel; medium dark gray (N4), ASH; non-cohesive, wet, loose	SP		1.70 392.58					
5	390	2.70 - 19.00 FILL, SILTY SAND, fine sand, non-plastic fines, trace fine weathered micaceous grains; medium dark gray (N4) to brownish black (5YR 4/1), ASH; non-cohesive, wet, loose				1		3.60 10.00	3/8" Bentonite Pellets	FILTER PACK Interval: 6.7'-21.0' Type: #1 Sand
10	385	10.00: mottled black (N1) grains	SM						#1 Sand	
15	380					2		8.20 10.00	0.010" Screen Slot	ANNULUS SEAL Interval: 0'-2' Type: Concrete
20	375	19.00 - 21.50 Sandy SILTY CLAY, low to medium plasticity fines, fine to medium sub-rounded sand, trace organics (roots); moderate brown (5YR 3/4), highly weathered (W4), SAPROLITE; cohesive, w<PL, firm	CL		376.28 19.00				#1 Sand - End Cap	
25	370	21.50 - 25.00 medium plasticity fines, some fine to medium sub-rounded sand, trace weathered micaceous grains; light brown (5YR 5/6) to moderate reddish brown (10R 4/6), highly weathered (W4), SAPROLITE; cohesive, w<PL, firm			373.78 21.50	3		4.10 5.00	#1 Sand	DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
		Boring completed at 25.00 ft			370.28				3/8" Bentonite Chips	
30	365									
35	360									
40	355									
45										

BOREHOLE RECORD PLAT BRANCH LOGS GPJ_PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



RECORD OF BOREHOLE IW-C-2

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 26.50 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/14/16
 DATE COMPLETED: 7/14/16

NORTHING: 1,161,523.36
 EASTING: 2,559,924.11
 GS ELEVATION: 410.77
 TOC ELEVATION: 413.63 ft

DEPTH W.L.: 5.14
 G.W. ELEVATION: 408.49
 DATE W.L.: 7/24/2016
 TIME W.L.: 06:27

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	410	0.00 - 1.00 TOPSOIL, SILT, non-plastic fines, some fine sand, some organics (roots); medium gray (N5), ASH & SOIL; non-cohesive, dry, loose	ML		409.77 1.00			Concrete — 3/8" Bentonite Pellets #1 Sand — 0.010" Screen Slot #1 Sand - End Cap / #1 Sand	WELL CASING Interval: 0.0'-6.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 6'-26' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 4.0'-26.5' Type: #1 Sand FILTER PACK SEAL Interval: 2.0'-4.0' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-2' Type: Concrete WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
5	405	1.00 - 9.00 FILL, Sandy SILT, non-plastic fines, fine to medium sub-angular sand; medium dark gray (N4) mottled brownish gray (5YR 4/1), some ~1 cm thick silt/sand seams, occasional ~2 inch sand seams, ASH; non-cohesive, moist, loose	ML			1	4.80 10.00		
10	400	9.00 - 20.00 FILL, SILTY SAND, fine to medium poorly graded sand, non-plastic fines, trace fine sub-angular gravels, trace weathered micaceous grains; medium dark gray (N4), ASH; non-cohesive, wet, loose	SM		401.77 9.00	2	4.90 10.00		
15	395	20.00 - 26.50 FILL, SAND, fine to coarse well graded sub-angular sand, some fine sub-angular gravels, trace non-plastic fines; dark gray (N3), ASH; non-cohesive, wet, compact	SW		390.77 20.00	3	1.00 1.00		
20	390				384.27	4	2.40 5.50		
25	385	Boring completed at 26.50 ft							
30	380								
35	375								
40	370								
45									

BOREHOLE RECORD PLAT BRANCH LOGS GPJ - PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



RECORD OF BOREHOLE IW-D-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 16.65 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/15/16
 DATE COMPLETED: 7/15/16

NORTHING: 1,161,801.53
 EASTING: 2,558,614.89
 GS ELEVATION: 403.42
 TOC ELEVATION: 406.58 ft

DEPTH W.L.: 12.00
 G.W. ELEVATION: 394.58
 DATE W.L.: 7/24/2016
 TIME W.L.: 06:20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 1.70 FILL, Sandy SILT, non-plastic fines, fine sub-angular sand, some organics (roots); medium dark gray (N4) to brownish gray (5YR 4/1), some 1 cm thick laminated beds, ASH; non-cohesive, dry, loose	ML		401.72				<p>Concrete —</p> <p>3/8" Bentonite Pellets</p> <p>#1 Sand —</p> <p>0.010" Screen Slot</p> <p>#1 Sand - End Cap</p>	<p>WELL CASING Interval: 0.0'-6.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 6.2'-16.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 4.0'-16.65' Type: #1 Sand</p> <p>FILTER PACK SEAL Interval: 2.0'-4.0' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-2' Type: Concrete</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A</p>
400		1.70 - 2.30 FILL, SAND, fine sub-angular sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, dry, loose	SP		401.12					
5		2.30 - 6.00 FILL, Sandy SILT, non-plastic fines, fine sub-angular sand; medium dark gray (N4) and brownish grey (5YR 4/3), 1 cm thick laminated beds, ASH; non-cohesive, dry, loose	ML		397.42	1		7.90 10.00		
		6.00 - 7.20 FILL, SAND, fine sub-angular sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, dry, loose	SP		6.00					
		7.20 - 8.30 FILL, Sandy SILT, non-plastic fines, fine to medium sub-angular sand; medium gray (N5), ASH; non-cohesive, moist, loose	ML		396.22					
395		8.30 - 10.70 FILL, SAND, fine poorly graded sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, wet, loose	SP		7.20					
10		10.70 - 16.65 FILL, Sandy SILT, non-plastic fines, fine sand; medium dark gray (N4), ASH; non-cohesive, wet, loose	ML		395.12					
					8.30					
					392.72					
390			ML		10.70	2		3.60 6.65		
15		Boring completed at 16.65 ft				386.77				
385										
20										
380										
25										
375										
30										
370										
35										
365										
40										
360										
45										

BOREHOLE RECORD PLAT BRANCH LOGS GPJ - PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



RECORD OF BOREHOLE IW-D-2

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-093901
 DRILLED DEPTH: 31.00 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/16/16
 DATE COMPLETED: 7/16/16

NORTHING: 1,162,422.38
 EASTING: 2,558,298.72
 GS ELEVATION: 406.88
 TOC ELEVATION: 410.03 ft

DEPTH W.L.: 10.23
 G.W. ELEVATION: 399.80
 DATE W.L.: 7/24/2016
 TIME W.L.: 06:20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	405	0.00 - 1.20 Sandy CLAYEY GRAVEL, fine to coarse, angular, gravel (CCR), low plasticity fines, fine to coarse well graded angular sand; grayish black (N2) mottled light brown (5Y5/6), ASH and COAL; non-cohesive, dry, loose	GC		405.68 1.20				Concrete -- 3/8" Bentonite Pellets #1 Sand -- 0.010" Screen Slot #1 Sand - End Cap #1 Sand -	WELL CASING Interval: 0.0'-4.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 4.7'-29.7' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 3.0-31.0 Type: #1 Sand FILTER PACK SEAL Interval: 3.0'-1.0' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-1' Type: Concrete WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A
5	400	1.20 - 10.70 SAND, fine to medium sub-angular sand, some coarse angular gravel (coal, ccr and native), trace non-plastic fines; brownish gray (5YR 4/1), ASH; non-cohesive, dry, loose	SP			1		8.00 10.00		
10	395	10.70 - 17.00 SAND and SILT, fine poorly graded sand, non-plastic fines; medium gray (N5) to brownish gray (5YR 4/1) mottled black (N1), some ~1 to 5 cm thick laminated layers, ASH; non-cohesive, wet, loose	SP & ML		396.18 10.70					
15	390	17.00 - 29.80 SAND, fine to medium sub-angular sand, non-plastic fines; medium dark gray (N4) mottled black (N1), ASH; non-cohesive, wet, loose	SP		389.88 17.00	2		5.20 10.00		
20	385					3		10.70 11.00		
25	380									
30	375	29.80 - 31.00 SILTY CLAY, medium plasticity fines, some fine to medium angular to sub-angular sand, light brown (5YR 5/6), Highly weathered (W4), some weathered micaceous grains, SAPROLITE; cohesive, w~PL, firm	CL		377.08 29.80 375.88					
		Boring completed at 31.00 ft								

BOREHOLE RECORD PLAT BRANCH LOGS GPJ - PIEDMONT.GDT 9/14/16

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/13/16



	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 1 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE Lab Sample	ELEV. (ft msl)
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)			
0				SS	2	2	10	(0') Sandy elastic SILT (MH); some fine-coarse sand, mostly silt, few clay, low plasticity, soft, moist, reddish, some organic matter.		370
5				SS	2	6	16	(2') Sandy elastic SILT (MH); some fine-coarse sand, mostly silt, few clay, low plasticity, medium stiff, moist, yellowish-red to red, mica.	PB-13 (2-4)	
10				SS	2	4	15	(4') Sandy elastic SILT (MH); some fine-coarse sand, mostly silt, few clay, low plasticity, medium stiff, moist, yellowish-red to red, mica.		
15				SS	2	2	10	(5') Elastic SILT with sand (MH); little fine sand, mostly silt, few clay, low plasticity, medium stiff, moist, yellowish-brown, 5-gallon bucket soil sample collected from approximately 0 to 5 feet below ground surface.	PB-13 (6-8)	365
20				SS	2	2	8	(6') Elastic SILT with sand (MH); little fine sand, mostly silt, few clay, low plasticity, medium stiff, moist, yellowish-brown.		
25				SS	2	3	14	(8') Sandy lean CLAY (CL); some fine sand, trace silt, mostly clay, medium plasticity, medium stiff, moist, light greenish.		
30				SS	2	3	18	(10') Lean CLAY (CL); some fine-coarse sand, trace silt, mostly clay, medium plasticity, stiff, moist, light greenish.	PB-13 (10-12)	360
35				SH	2	10	12	(10.5') Clayey SAND (SC); mostly fine-coarse grained sand, trace silt, some clay, well-graded, medium dense, moist, light greenish.		
40				SH	2	12		(12') Clayey SAND (SC).		
45				SS	2	2	7	(14') Clayey SAND (SC); mostly fine-coarse grained sand, trace silt, some clay, well-graded, loose, moist, light green to light brown.		
50				SS	2	3	4	(15') 5-gallon bucket soil sample collected from approximately 10 to 15 feet below ground surface.		
55				SS	1.5	3	7	(16') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, trace clay, loose, wet, dark gray to grayish-white, abundant mica and quartz.	PB-13 (16-18)	355
60				SH	2	2	5		PB-13 (18-20)	
65				SH	2	6	6			

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 2 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	


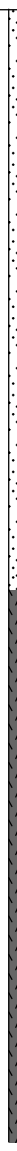

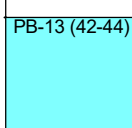

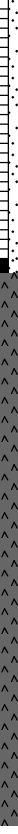

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)		Lab Sample	ELEV. (ft msl)
20				SS	1.5	3	12	(20') Silty SAND (SM); mostly fine-medium grained sand, some silt, trace clay, poorly graded, medium dense, wet, light gray.		350
				SS	1.2	4	14	(22') Silty SAND (SM); mostly fine-medium grained sand, some silt, trace clay, poorly graded, medium dense, wet, light gray.		
				SS	0.8	4	16	(24') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white, abundant mica, 5-gallon bucket soil sample collected from approximately 20 to 24 feet below ground surface.		
25				SS	1	5	15	(26') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to yellow gray.		345
				SS	0.8	2	12	(28') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, few clay, medium dense, wet, grayish-white to yellowish-gray, abundant mica and quartz.	PB-13 (28-30)	
30				SH	2	5			PB-13 (30-32)	340
				SS	0.7	9	28	(32') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz.		
				SS	0.8	5	23	(34') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz, laminated.		
35				SS	0.8	6	17	(36') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz, laminated.		335
				SS	0.8	7				
				SS	1	6	17	(38') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz.		
40						7				

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 3 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE Lab Sample	ELEV. (ft msl)
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)			
40				SS	0.8	8	23	(40') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz.		330
10				SS	1.3	7	16	(42') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, well-graded, medium dense, wet, green to white, abundant mica and quartz.		
13				SS	1	10	47	(44') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, well-graded, dense, wet, greenish, abundant mica and quartz.		
18				SS	0.3	5	22	(46') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, well-graded, medium dense, wet, green to white, abundant mica and quartz, laminated.		
23				SS	1.1	32	57	(48') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, well-graded, very dense, wet, dark gray to dark brown to white, abundant mica and quartz, laminated.		
30				SS	0.4	21	50	(53') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, very dense, wet, grayish-white, abundant mica and quartz, laminated, black mottles. (54') Top of PWR.		
41				SS	0.3	50/5	50/4	(58') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, very dense, wet, grayish-white, abundant mica and quartz, laminated, black mottles.		
45										
50									325	
55										
60									320	
									315	


NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 4 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

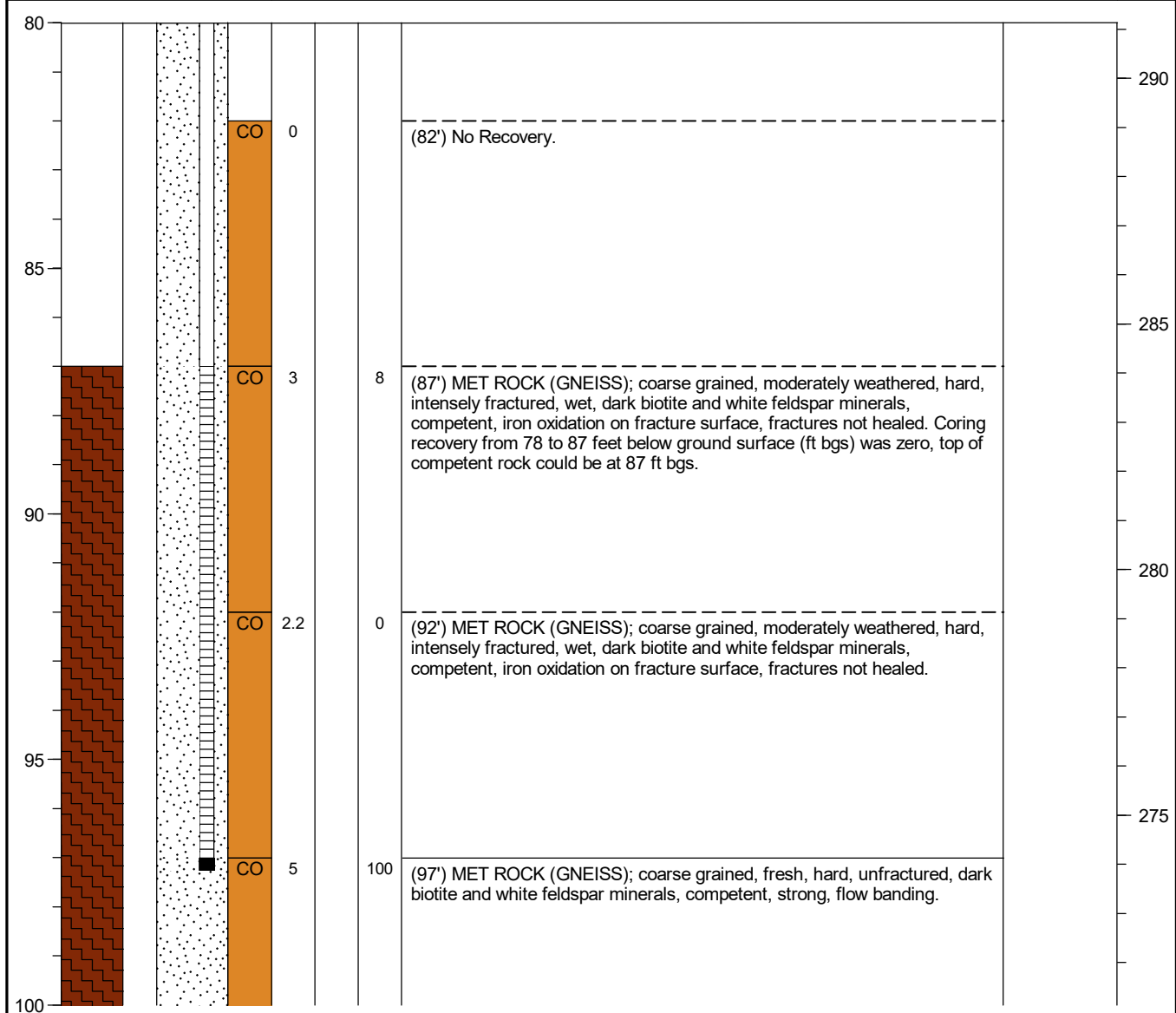
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)		Lab Sample	ELEV. (ft msl)	
60										310	
63				SS	0.3	50/3.5		(63') Silty SAND (SM); mostly fine-coarse grained sand, some silt, trace clay, very dense, wet, grayish-white, abundant mica and quartz, laminated, black mottles.			
65											
68				SS	0.7	38 50/5	50	(68') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, trace clay, very dense, wet, gray, abundant mica, quartz, black mottles.	PB-13 (68-70)		
70								(70') Began mud rotary drilling.			
73				SS	0.2	50/2		(73') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, trace clay, well-graded, very dense, wet, gray, abundant mica, quartz, black mottles.			
75											
78				SS	0.2	50/2		(78') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, trace clay, well-graded, very dense, wet, gray, abundant mica, quartz, black mottles. Cable tool (rock coring) started at 78.1 ft below ground surface.			
80								(78.1') No Recovery.			

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable


	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 5 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)		Lab Sample	ELEV. (ft msl)

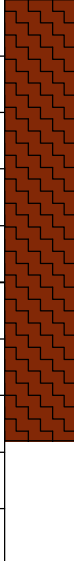
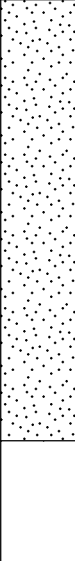


NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

	Client: Georgia Power Company	WELL LOG Well No. PB-13S/PB-13D Page: 6 of 6
	Project: Plant Branch CCR Landfill Site Investigation	
	Address: 1100 Milledgeville Rd, Milledgeville	

Drilling Start Date: 12/10/2018	Boring Depth (ft): 107.8	Well Depth (ft): 50/97
Drilling End Date: 12/18/2018	Boring Diameter (in): 6.50	Well Diam. (in)/Screen Slot (in): 2.0/0.010
Drilling Company: Thompson Engineering	Static Water Level (ft): 7.19/7.74	Riser Material: Sch 40 PVC
Drilling Method: Hollow Stem Auger	DTW After Drilling (ft): 7.40/7.40	Screen Material: Sch 40 PVC Slotted
Drilling Equipment: D-50	Top of Casing Elev. (ft): 373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal: Bentonite Pellets
Driller: Phil Pitts	Ground Elev. (ft): 370.8(PB-13S) 371.1(PB-13D)	Filter Pack: Sand
Logged By: Nardos Tilahun	Location (X,Y): 1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s): SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)		Lab Sample	ELEV. (ft msl)

100			CO	5			100	(102') MET ROCK (GNEISS); coarse grained, fresh, hard, unfractured, dark biotite and white feldspar minerals, competent, strong, flow banding.		270
105				0.8			100	(107') MET ROCK (GNEISS); coarse grained, fresh, hard, unfractured, dark biotite and white feldspar minerals, competent, strong, flow banding. (107.8') Boring terminated.		265
110										

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
 NA = Not Applicable
 Easting and Northing in NAD 83.
 Elevation in NAVD 88.



BORING LOG

BORING PZ-18 I
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/24/2014 **COMPLETED** 2/26/2014 **GROUND ELEVATION** 359.6 ft **COORDINATES** N 1160766.2 E 2557745.5

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 38.8 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 14.7 ft. after 260 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE GDT - 10/29/20 14:45 - \\ALTRCFP01\APARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			359.6				Top of casing Elev. = 362.55
5		Lean Clay (CL) residuum dry, medium stiff, CLAY, red, micas, silt					
		residuum dry, stiff, Clayey SILT, reds, mica					
			352.6				
10		residuum dry, stiff, Clayey SILT, yellow-red, micas					
15		saprolite very damp, stiff, Clayey SILT, yellow-red, light gray, pale yellow, micas					
20		saprolite wet, stiff, Clayey SILT, brown, white, micas, sand					
25		saprolite wet, hard, Clayey SILT, yellow-brown, dark gray, gray, micas, sand	333.5				Annular Seal
30		Felsic biotite GNEISS medium to coarse grain, medium hard to hard, moderately to not weathered, flow banded, numerous fractures, dark gray, pale yellow, white banding, feldspar, quartz, biotite, pyrite					Filter Pack
35		medium to coarse grain, medium hard to hard, slightly to not weathered, flow banded, few fractures, dark gray, white banding, feldspar, quartz, biotite, pyrite					
			320.8				Screen Tip Elevation

Bottom of borehole at 38.8 feet.



BORING LOG

BORING PZ-18 S
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/26/2014 COMPLETED 2/26/2014 GROUND ELEVATION 359.7 ft COORDINATES N 1160757.3 E 2557747.4

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 25.1 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 14.8 ft. after 260 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\APARKER\DESKTOP\PIANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			359.7				Top of casing Elev. = 362.82
5		See PZ-18 I for material descriptions					
10							
15							
20							
25							

Annular Seal

Filter Pack

Screen Tip Elevation

Bottom of borehole at 25.1 feet.



BORING LOG

BORING PZ-19 I
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/27/2014 COMPLETED 3/4/2014 GROUND ELEVATION 368.9 ft COORDINATES N 1159797.1 E 2558900

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger; Casing Advance; HQ EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 43.7 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 7 ft. after 50 hrs.

NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			368.9				Top of casing Elev. = 371.74
5		Lean Clay (CL) residuum damp, soft, sandy CLAY, dark red-brown	364.9				
		subsoil dry, very dense, silty SAND, pale gray-brown, gravel, weathered rock/boulder	361.9				
10		---no recovery/sampler plugged by gravel---					
			355.9				
15		saprolite damp, stiff, silty CLAY, dark red-brown, sand, micas					
			350.9				
20		saprolite very damp, dense, silty SAND, pale gray-brown with yellow mottles, clay, micas					
25		saprolite wet, very dense, silty SAND, dark yellow-brown, clay					
30		saprolite wet, very dense, silty SAND, red-yellow and pale gray-brown	338.7				Annular Seal
		Felsic biotite GNEISS medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, black and white banding, feldspar, quartz, biotite, feldsapr phenocrysts					Filter Pack
35		medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, distinct black and white banding, feldspar, quartz, biotite, feldsapr phenocrysts					
40		medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, distinct black and white banding, feldspar, quartz, biotite, feldsapr phenocrysts					
			325.2				Screen Tip Elevation
Bottom of borehole at 43.7 feet.							

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\APARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ



BORING LOG

BORING PZ-19 S
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/4/2014 COMPLETED 3/4/2014 GROUND ELEVATION 368.4 ft COORDINATES N 1159805.4 E 2558894.5

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 28 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 6 ft. after 42 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LPARKER\DESKTOP\PIANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			368.4				Top of casing Elev. = 371.42
5		▼ See PZ-19 I for material descriptions					
10							
15							
20							
25							
							Annular Seal
							Filter Pack
							Screen Tip Elevation

Bottom of borehole at 28.0 feet.



BORING LOG

BORING PZ-20 I
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/5/2014 COMPLETED 3/5/2014 GROUND ELEVATION 362.2 ft COORDINATES N 1159495.4 E 2560160.2

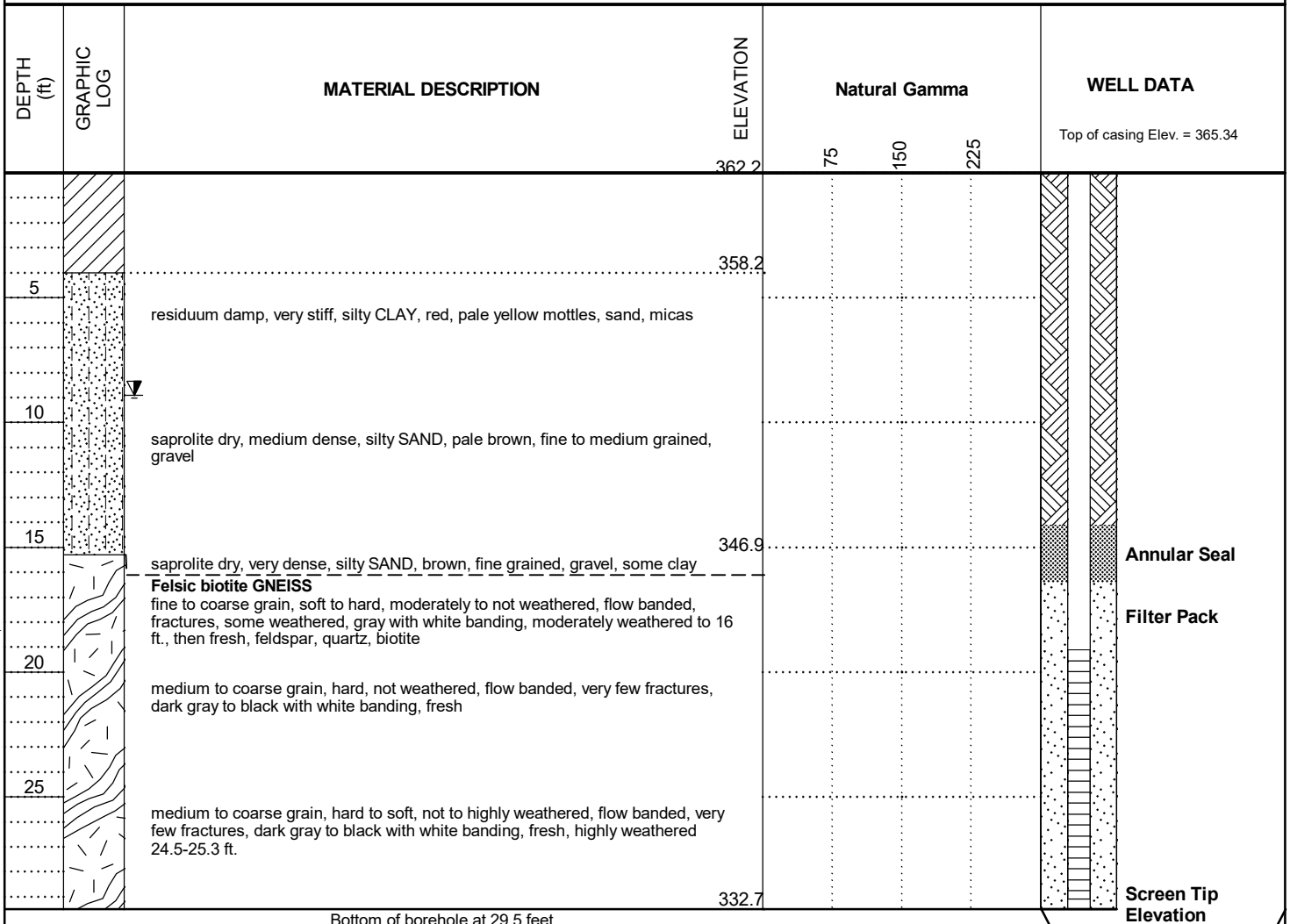
CONTRACTOR SCS Field Services METHOD Hollow Stem Auger; Casing Advance; HQ EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 29.5 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 8.9 ft. after 115 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE GDT - 10/29/20 14:45 - \\ALTRCFP01\LPARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ





BORING LOG

BORING PZ-20 S

Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 3/5/2014 COMPLETED 3/5/2014 GROUND ELEVATION 362.2 ft COORDINATES N 1159490.3 E 2560157

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 15 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 9.4 ft. after 115 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\GFC\PLANT BRANCH PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			362.2				Top of casing Elev. = 365.41
5		See PZ-20 I for material descriptions					Annular Seal Filter Pack
10							
15							Screen Tip Elevation

Bottom of borehole at 15.0 feet.



BORING LOG

BORING PZ-21 I
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/6/2014 COMPLETED 3/10/2014 GROUND ELEVATION 355.8 ft COORDINATES N 1160591.6 E 2561328.2

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger; Casing Advance; HQ EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 24.4 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 7.9 ft. after 50 hrs.

NOTES _____

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCF001\APARKER\DESKTOP\PIEZOMETERS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma			WELL DATA
				75	150	225	
			355.8				Top of casing Elev. = 358.92
5		residuum damp, stiff, sandy CLAY, red-brown with red-yellow mottles, silt, micas	348.8				
10		saprolite wet, stiff, sandy SILT, brown with pale yellow-brown mottles, clay, micas	344.8				Annular Seal
15		Felsic biotite GNEISS medium to coarse grain, medium hard to hard, slightly to not weathered, flow banded, few fractures, dark gray to black with white bands, slightly weathered to 12 ft., then fresh, feldspar, quartz, biotite					Filter Pack
20		medium to coarse grain, hard, not weathered, flow banded, very few fractures, fresh rock, feldspar, quartz, biotite, felspar phenocrysts					
		medium to coarse grain, hard, not weathered, flow banded, very few fractures, fresh rock, feldspar, quartz, biotite, felspar phenocrysts	331.4				Screen Tip Elevation

Bottom of borehole at 24.4 feet.



BORING LOG

BORING PZ-21 S

Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 3/11/2014 COMPLETED 3/11/2014 GROUND ELEVATION 355.5 ft COORDINATES N 1160592.4 E 2561321.3

CONTRACTOR SCS Field Services METHOD Hollow Stem Auger EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY W. Shaughnessy CHECKED BY _____ BORING DEPTH 9.5 ft.

GROUND WATER DEPTH: DURING _____ COMP. _____ DELAYED 4.3 ft. after 50 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION			WELL DATA
			355.5	75	150	
5	▼	See PZ-21 I for material descriptions				Top of casing Elev. = 358.52
Bottom of borehole at 9.5 feet.						

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER\DESKTOP\GFCIPLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-231

SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 67.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/27/16
 DATE COMPLETED: 7/29/16

NORTHING: 1,162,975.40
 EASTING: 2,557,877.70
 GS ELEVATION: 425.1
 TOC ELEVATION: 427.74 ft

DEPTH W.L.: 52.00
 ELEVATION W.L.: 375.90
 DATE W.L.: 07/29/2016
 TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	425	0.00 - 6.00 sandy SILT, fine sand, reddish brown, cohesive, w < PL	ML		419.1 6.00	1		6.00 6.00	<p>WELL CASING Interval: 0'-56.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 56.5'-66.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: PVC</p> <p>FILTER PACK Interval: 54.5'-67' Type: 54.5-55.0 - 30/45 Sand; 55.5-67 - #1 Sand</p> <p>FILTER PACK SEAL Interval: 48.5'-54.5' Type: 52.5'-54.5' - 3/8" Bentonite Pellets, 50.5' -52.5' - 3/8" Bentonite Chips</p> <p>ANNULUS SEAL Interval: 0' - 48.5' Type: Portland Cement (Type II)</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminium</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>	
5	420	6.00 - 16.00 silty SAND, fine to medium sand, light reddish brown, non-cohesive, moist, micaceous			409.1 6.00					
10	415	16.00 - 24.00 light grayish brown	SM		401.1 24.00	3		5.40 10.00		
15	410	24.00 - 36.00 silty SAND, fine to coarse, trace gravel, light grayish brown, moist, relict rock structure apparent, SAPROLITE			389.1 36.00					
20	405	36.00 - 37.00 No Recovery			388.1 37.00	5		0.00 1.00		
25	400	37.00 - 40.00 Biotite Gneiss, highly competent, little weathering	GNEISS		385.1 40.00	6		2.50 3.00		
30	395	40.00 - 42.00 Difficult drilling			383.1 42.00	7		0.00 6.00		
35	390	42.00 - 67.00 Biotite Gneiss								
40	385	Log continued on next page								

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade
 DRILLER: John Vasquez

GA INSPECTOR: Randy Pettyjohn
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



RECORD OF BOREHOLE PZ-231

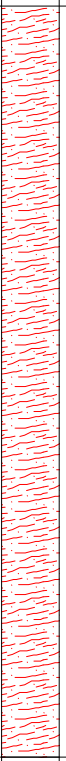
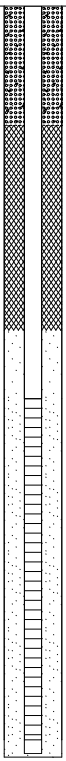
SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 67.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/27/16
 DATE COMPLETED: 7/29/16

NORTHING: 1,162,975.40
 EASTING: 2,557,877.70
 GS ELEVATION: 425.1
 TOC ELEVATION: 427.74 ft

DEPTH W.L.: 52.00
 ELEVATION W.L.: 375.90
 DATE W.L.: 07/29/2016
 TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC	
45	380	42.00 - 67.00 Biotite Gneiss (Continued)			7				WELL CASING Interval: 0'-56.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 56.5'-66.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: PVC FILTER PACK Interval: 54.5'-67' Type: 54.5-55.0 - 30/45 Sand; 55.5-67 - #1 Sand FILTER PACK SEAL Interval: 48.5'-54.5' Type: 52.5'-54.5' - 3/8" Bentonite Pellets, 50.5'-52.5' - 3/8" Bentonite Chips ANNULUS SEAL Interval: 0' - 48.5' Type: Portland Cement (Type II) WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminium DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic		
50	375				8		6.00				10.00
55	370				9		8.60				10.00
60	365	Boring completed at 67.00 ft			358.1						
65	360										
70	355										
75	350										
80	345										
85	340										
90											

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade
 DRILLER: John Vasquez

GA INSPECTOR: Randy Pettyjohn
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-24S/BRGWC-24S

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 42.00 ft
 LOCATION: Milledgville, GA

DRILL RIG: Prosonic Truck Mounted Rig
 DATE STARTED: 7/27/16
 DATE COMPLETED: 7/27/16

NORTHING: 1,162,400.90
 EASTING: 2,562,862.20
 GS ELEVATION: 351.4
 TOC ELEVATION: 354.10 ft

DEPTH W.L.: 11.25
 ELEVATION W.L.: 342.75
 DATE W.L.: 7/28/16
 TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	350	0.00 - 10.00 No Recovery; Hydrovac								<p>WELL CASING Interval: 0.0'-31.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 31.5'-41.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 28.5'-41.5' Type: 28.5'-29.5', 30/45 fine sand; 29.5'-41.5', #1 sand Quantity:</p> <p>FILTER PACK SEAL Interval: 23.5'-28.5' Type: 23.5'-26.5', 3/8" Bentonite Chips; 26.5'-28.5', 3/8" Bentonite Pellets Quantity:</p> <p>ANNULUS SEAL Interval: 0.0'-23.5' Type: Portland Cement (Type I) Quantity:</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: N/A</p>
10	340	10.00 - 11.00 SILT, NP, light grey brown, mottled; moderately weathered, relic structure foliations, friable, micaceous, saporlilite; cohesive, dry, firm	ML		341.4 340.4	1	7.00			
11	340	11.00 - 12.00 SILT, NP, few fine sand; light grey brown, white brown, mottled, moderately weathered, relic structure foliations, micaceous, saporlilite; cohesive, dry, soft	SW		11.00 339.4		10.00			
12	340	12.00 - 13.30 SAND, medium grain, well graded, trace few silt, trace coarse sand, subangular; light grey, mottled, moderately weathered, massive, micaceous, saporlilite; cohesive, moist, very loose	MLS		12.00 338.1					
13	335	13.30 - 14.00 SAND, medium grain, well graded, trace few silt, trace coarse sand, subangular; light grey, mottled, moderately weathered, massive, micaceous, saporlilite; cohesive, moist, very loose	SW		14.00 334.6					
14	335	14.00 - 16.80 SAND, medium grain, well graded, trace few silt, trace coarse sand, subangular; light grey, mottled, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very loose	ML		17.50 332.6					
15	335	16.80 - 17.50 SILT, NP, light grey brown, mottled; moderately weathered, relic structure foliations, friable, micaceous, SAPROLITE; cohesive, moist, firm	MLS		18.80 329.4	2	10.00			
16	335	17.50 - 18.80 SILT, NP, trace fine grain sand; grey brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very loose	ML		22.00 328.1		10.00			
17	330	18.80 - 22.00 SILT, NP, trace medium sand; grey brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, loose	ML		23.30 326.9					
18	330	22.00 - 23.30 sandy SILT, NP, fine sand; light brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft	SM		24.50 325.3					
19	330	23.30 - 24.50 SILT, NP; grey brown mottled dark grey white, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, stiff	ML		27.00 324.4	3	10.00			
20	330	24.50 - 26.10 SILT, NP, trace fine-medium grain sand; mottled white and grey brown, lightly weathered, relic structure foliation, micaceous, SAPROLITE; cohesive, moist, soft	ML		316.9 315.9		10.00			
21	330	26.10 - 27.00 silty SAND, low plasticity, well graded fine-medium sand; white, light grey brown mottling, lightly weathered, relic structure foliations, micaceous, SAPROLITE; cohesive, moist, very soft	SP		35.50					
22	330	27.00 - 34.50 SILT, NP, trace fine sand; grey brown and white mottling, lightly weathered, relic structure foliation, micaceous, SAPROLITE; cohesive, moist, soft			310.9 40.50	4	5.00			
23	330	34.50 - 35.50 SILT, NP, trace fine sand; grey brown and white mottling, lightly weathered, relic structure foliation, micaceous, SAPROLITE; cohesive, moist, firm			309.4					
24	330	35.50 - 40.50 SAND, fine-coarse sand, gap graded, subangular, trace silt; light grey brown, white mottling, lightly weathered, relic structure foliation, micaceous, SAPROLITE; NC, moist, compact								
25	330	40.50 - 42.00 No Recovery								

BOREHOLE RECORD: PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ_PIEDMONT.GDT 11/10/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: John Vasquez

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-261

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 30.50 ft
 LOCATION: Milledville, GA

DRILL RIG: TS-150 Track Mounted Rig
 DATE STARTED: 7/26/16
 DATE COMPLETED: 7/26/16

NORTHING: 1,160,669.00
 EASTING: 2,561,626.40
 GS ELEVATION: 368.0
 TOC ELEVATION: 370.63 ft

DEPTH W.L.: 18.71
 ELEVATION W.L.: 352.22
 DATE W.L.: 7/21/2016
 TIME W.L.: 13:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 4.30 SILTY SAND, fine to coarse angular sand, non-plastic fines, trace fine to coarse sub-angular gravels; moderate reddish brown (10YR 4/6), some weathered micaceous grains, non-cohesive, compact, dry	SM	[Graphic Log]	363.7	1		6.90 7.00		<p>WELL CASING Interval: 0.0'-20.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 20.5'-30.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.006" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 17.0'-30.5' Type: 17.0'-18.0' 30/45 Sand - 18.0'-30.5' #1 Sand</p> <p>FILTER PACK SEAL Interval: 12.0'-17.0' Type: 12.0'-15.0' 3/8" Bentonite Chips - 15.0'-17.0' 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 2'-12' Type: Portland Cement (Type II)</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>
5		4.30 - 6.10 SAND, fine to medium sub-angular sand, trace fine angular gravel (weathered bedrock); dusky brown (5YR 2/2), completely weathered (W5), SAPROLITE; non-cohesive, dry, compact	SP	[Graphic Log]	6.10					
6		6.10 - 8.50 SILTY SAND, fine sand, non-plastic to low plasticity fines; light brown (5YR 6/6) to moderate reddish brown (10YR 4/6), highly weathered (W4), some relic foliations in core stones, weathered micaceous grains and quartz, SAPROLITE; cohesive, w-PL, firm	SM	[Graphic Log]	8.50 359.5	2		3.00 3.00		
10		8.50 - 9.40 Gravelly SAND, fine to medium angular sand, fine to coarse soft angular gravels (weathered core stones), trace non-plastic fines; very pale orange (10YR 8/6) with black (N1) and pale yellowish orange (10YR 6/6) core stones, highly weathered (W4), weathered micaceous grains, biotite, and quartz, SAPROLITE; non-cohesive, dry, dense	SP	[Graphic Log]	9.40					
15		9.40 - 12.80 SAND, medium to coarse sub-angular sand, some coarse soft angular gravels (weathered core stones); light brown (5YR 5/6), completely weathered (W5), SAPROLITE; non-cohesive, dry, dense to very dense	SM	[Graphic Log]	12.80	3		6.00 6.00		
35		12.80 - 14.30 SILTY SAND, fine to medium sub-angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (weathered core stones); very pale orange (10YR 8/2) to dark yellowish orange (10YR 6/6), highly weathered (W4), weathered micaceous minerals, biotite and quartz, SAPROLITE; non-cohesive, moist, dense	TWR	[Graphic Log]	14.30 352.5					
35		14.30 - 15.50 TRANSITIONALLY WEATHERED ROCK, fine to medium sub-angular sand, non-plastic to low plasticity fines, trace soft angular gravels (weathered core stones); light gray (N7), medium weathered (W3), quartz and biotite, non-cohesive, moist, very dense	GNISS	[Graphic Log]	15.50	4		3.30 4.00		
35		15.50 - 20.00 BEDROCK, Fresh (W1) to slightly weathered (W2), strongly foliated (1 to 2 cm thick), light gray (N7) to grayish black (N2) mottled brownish gray (5YR 4/1) and medium bluish gray (5B 5/10) with some light brown (5YR 5/6) staining, fine to medium grained, non-porous to faintly porous, very strong (R4), GNISS with hornblende, biotite and quartz, moist.		[Graphic Log]	20.00	5		8.40 10.49		
35		20.00 - 30.50 fresh (W1), some weathered fracture surfaces (spaced ~2 feet apart), trace weathered micaceous grains		[Graphic Log]	30.50					
30		Boring completed at 30.50 ft			337.5					

BOREHOLE RECORD PLANT BRANCH LOGS SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



RECORD OF BOREHOLE PZ-281

SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 25.00 ft
 LOCATION: Milledville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
 DATE STARTED: 7/23/16
 DATE COMPLETED: 7/24/16

NORTHING: 1,159,505.10
 EASTING: 2,560,151.70
 GS ELEVATION: 362.5
 TOC ELEVATION: 364.81 ft

DEPTH W.L.: 10.5
 ELEVATION W.L.: 354.38
 DATE W.L.: 7/23/16
 TIME W.L.: 7:30

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
0	360	0.00 - 5.00 SILT, NP, some fine-medium sand, trace subrounded fine gravel; reddish brown mottled light grey, whigly weathered, massive, micaceous, SAPROLITE; NC, dry, compact	ML		357.5	1		4.00 5.00	<p>Portland Type 1</p> <p>3/8" Bentonite Chips</p> <p>3/8" Bentonite Pellets</p> <p>#1 30/45 FineSand</p> <p>#1 Coarse Sand</p> <p>0.010" Screen Slot</p> <p>#1 Sand</p>	<p>WELL CASING Interval: 0'-14.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 14.0-24.0' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 11.0'-12.0' Type: 11.0'-12.0', 30/45 fine sand; 12.0'-24.0', #1 sand</p> <p>FILTER PACK SEAL Interval: 6.0'-11.0' Type: 6.0'-9.0', 3/8" Bentonite Chips; 9.0'-11.0', Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 2.0'-6.0' Type: Portland Cement (Type I)</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>
5	355	5.00 - 6.10 sandy SILT, NP, finesand, trace subrounded fine quartz gravel; light reddish grey brown, moderately weathered, massive, micaceous, SAPROLITE; NC, dry, loose	MLS		5.00 356.4	2		5.00 5.00		
		6.10 - 9.50 SAND, poorly graded, fine-medium grain, some silt, trace subangular coarse gravel; grey lightly weathered, massive, micaceous, SAPROLITE; NC, dry, very loose	SP		6.10					
10	350	9.50 - 10.00 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated; brown to light yellowish brown, medium crystalline, weak rock, biotite GNEISS, biotite, quartz, feldspar, intensely fractured	TWR		353	3		5.00 5.00		
		10.00 - 10.80 gravelly SAND, well graded, medium-coarse grain, some subangular coarse grain gravel, trace silt, trace subrounded cobbles; olive brown, moderately weathered, massive, homogenous, micaceous, SAPROLITE; NC, moist, loose	SPG		351.7					
		10.80 - 11.50 SILT, NP, some medium-coarse sand, trace quartz fine angular gfael; reddish brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, wet, firm	ML		351					
15	345	11.50 - 15.00 gravelly SAND, well graded, medium-coarse grain, some subangular coarse grain gravel, trace silt, trace subrounded cobbles; olive brown, moderately weathered, massive, homogenous, micaceous, SAPROLITE; NC, moist, loose	SPG		11.50	4		3.50 5.00		
		15.00 - 17.80 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated; grey brown to light yellowish brown, medium crystalline, weak rock, biotite GNEISS, biotite, quartz, feldspar, moderately fractured, fine-medium sand present, wet	TWR		15.00					
20	340	17.80 - 20.00 sluff in hole			344.7	5		5.00 5.00		
		20.00 - 25.00 BEDROCK, biotite GNEISS, fresh, foliated, dark grey and light grey, yellow brown discoloration, medium-very coarsely crystalline, little fracrues, biotite, quartz, feldspar, wet	GNEISS		17.80					
25	335	25.00 - 33.50 Boring completed at 25.00 ft			342.5					
					20.00					
					347.5					
					344.7					
					342.5					
					337.5					

BOREHOLE RECORD PLANT BRANCH LOGS2 SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



RECORD OF BOREHOLE PZ-31S

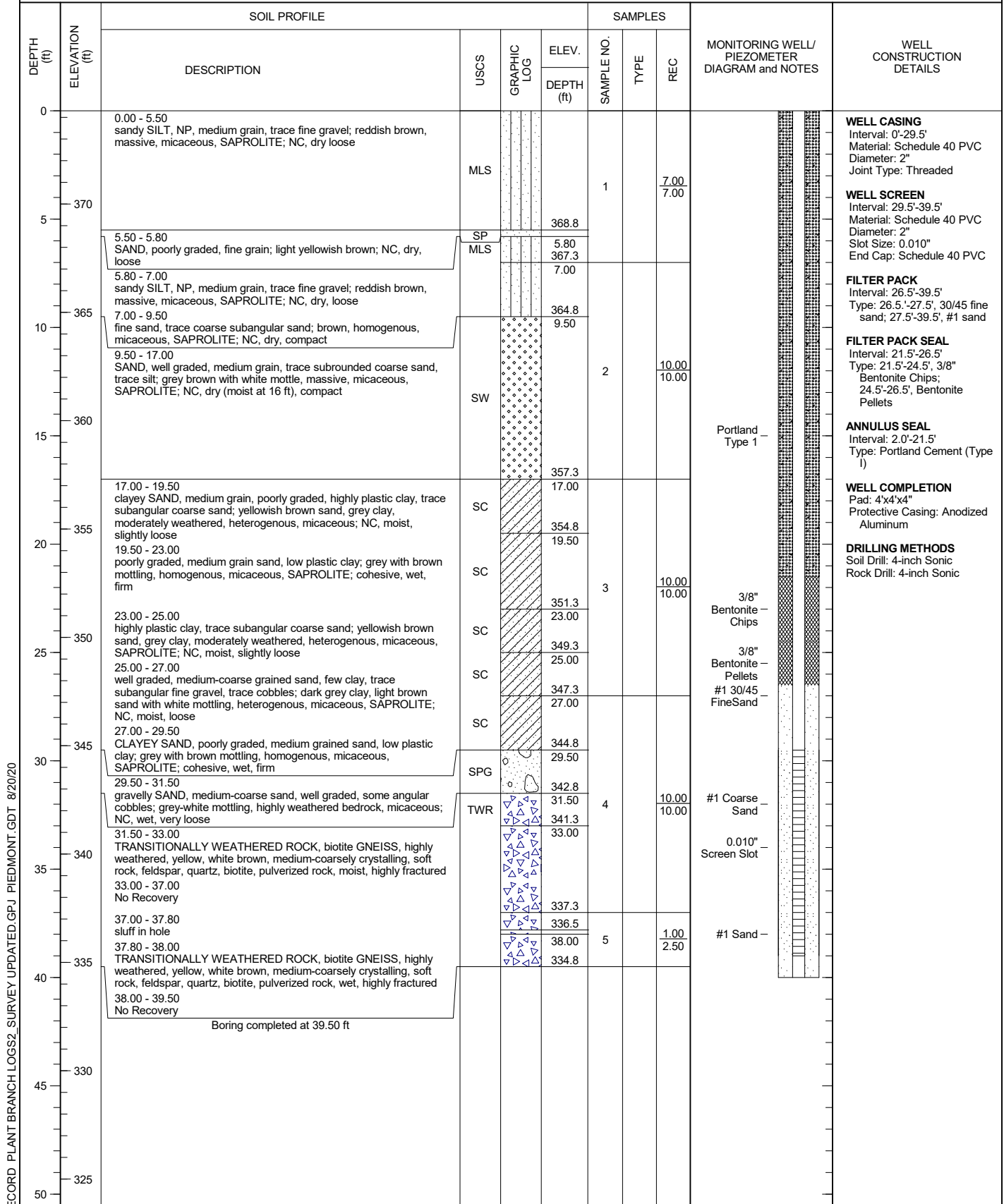
SHEET 1 of 1

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166-0939
 DRILLED DEPTH: 39.50 ft
 LOCATION: Milledville, GA

DRILL RIG: Prosonic Truck Mounted Rig
 DATE STARTED: 7/15/16
 DATE COMPLETED: 7/26/16

NORTHING: 1,160,936.90
 EASTING: 2,557,971.80
 GS ELEVATION: 374.3
 TOC ELEVATION: 376.77 ft

DEPTH W.L.: 19.6
 ELEVATION W.L.: 357.34
 DATE W.L.: 7/26/16
 TIME W.L.: 10:07



BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ_PIEDMONT.GDT 8/20/20

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: John Vasquez

GA INSPECTOR: Will Ethier
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/15/16



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-40S

SHEET 1 of 1

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 40.20 ft
 LOCATION: Aera A

DRILL RIG: CME 550
 DATE STARTED: 2/14/17
 DATE COMPLETED: 2/14/17

NORTHING: 1,162,414.90
 EASTING: 2,562,807.70
 GS ELEVATION: 353.2
 TOC ELEVATION: 355.96 ft

DEPTH W.L.: 12.7'
 ELEVATION W.L.: 340.5
 DATE W.L.: 2/14/2017
 TIME W.L.: 13:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0		0.00 - 10.00 Boring was Hydrovacuum to 10 feet.									Pure Gold Grout (70:30) with Aluminum Protective Casing Pure Gold Grout (70:30) 3/8" PEL-PLUG Bentonite Pellets FilterSil 0.010" Slotted Schedule 40 PVC Pre-Pack Screen	WELL CASING Interval: 0-28.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw WELL SCREEN Interval: 28.8-38.8' Material: Schedule 40 PVC Pre-Pack Diameter: 2 Slot Size: 0.010 End Cap: 39.8-40.2' FILTER PACK Interval: 27.8-40.2' Type: FilterSil FILTER PACK SEAL Interval: 24.7-27.8' Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-24.7 Type: Pure Gold Grout (70:30) WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5' Aluminum DRILLING METHODS Soil Drill: 4.25 inch HSA Rock Drill: None
10		10.00 - 23.50 ML, SILT, with some sand, fine to medium grained, non-plastic; gray/silver to red; cohesive, moist, w<PL.			343.2							
15			ML			S1	DO	2-2-2	4	1.50 1.50		
20						S2	DO	2-2-3	5	1.50 1.50		
25		23.50 - 33.50 SM, SILTY SAND, fine to coarse, non plastic; light brown to black to white; non-cohesive, dry to moist, W<PL.			329.7							
30			SM		23.50	S3	DO	21-37-50/3	87/9	1.25 1.50		
35		33.50 - 38.50 ML, SILT, with trace fine sand, non-plastic, white to black to bronze, weathered; cohesive, moist, firm to stiff, W<PL.			319.7							
40		38.50 - 40.20 SP, SAND, fine to coarse grained with trace silt, non-plastic; white to bronze; non-cohesive, dry, W<PL.			314.7							
			ML		33.50	S5	DO	7-13-17	30	1.00 1.50		
			SP		38.50	S6	DO	12-18-24	42	1.00 1.50		
					313							

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 4/13/17



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-41S




SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 45.00 ft
 LOCATION: Aera A

DRILL RIG: CME 550
 DATE STARTED: 2/13/17
 DATE COMPLETED: 2/14/17

NORTHING: 1,162,431.80
 EASTING: 2,562,759.40
 GS ELEVATION: 354.3
 TOC ELEVATION: 357.17 ft

DEPTH W.L.: 13.7
 ELEVATION W.L.: 340.6
 DATE W.L.: 2/14/2017
 TIME W.L.: 0735

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0		0.00 - 10.00 Boring was Hydrovacuum to 10 feet.									Pure Gold Grout (70:30) with Aluminum Protective Casing	WELL CASING Interval: 0-29.3' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw WELL SCREEN Interval: 33.8-43.8' Material: Schedule 40 PVC Pre-Pack Diameter: 2 Slot Size: 0.010 End Cap: 43.8-44.2' FILTER PACK Interval: 32-44.2' Type: FilterSil FILTER PACK SEAL Interval: 29.3-32' Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-29.3' Type: Pure Gold Grout (70:30) WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5' Aluminum DRILLING METHODS Soil Drill: 4.25 inch HSA Rock Drill: None
10	344.3	10.00 - 28.50 CL, CLAY, with trace-some sand, fine to coarse, and trace silt, moderate plasticity; white to red orange brown; cohesive, dry to moist, soft to stiff, W< to ~PL.	CL									
15	340				S1	DO	2-1-5	6	1.00 1.50		Pure Gold Grout (70:30)	
20	335				S2	DO	5-8-11	19	1.50 1.50			
25	330				S3	DO	3-5-8	13	1.50 1.50			
30	325	28.50 - 38.50 SM, SILTY SAND, non to low plasticity; silvery bronze to light brown to red brown, contains mica, biotite gneiss saprolite; cohesive, moist, soft to firm, W<PL.	SM		S4	DO	2-3-3	6	1.50 1.50		3/8" PEL-PLUG Bentonite Pellets	
35	320				S5	DO	3-4-7	11	1.16 1.50		FilterSil	
40	315	38.50 - 45.00 ML, SILT, with trace fine sand, non plastic; white to bronze, weathered, biotite gneiss saprolite; cohesive, moist, soft, W<PL.	ML		S6	DO	3-7-11	18	1.50 1.50		0.010" Slotted Schedule 40 PVC Pre-Pack Screen	

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 4/13/17



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-41S

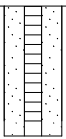
SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 45.00 ft
 LOCATION: Aera A

DRILL RIG: CME 550
 DATE STARTED: 2/13/17
 DATE COMPLETED: 2/14/17

NORTHING: 1,162,431.80
 EASTING: 2,562,759.40
 GS ELEVATION: 354.3
 TOC ELEVATION: 357.17 ft

DEPTH W.L.: 13.7
 ELEVATION W.L.: 340.6
 DATE W.L.: 2/14/2017
 TIME W.L.: 0735

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES					MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE	REC			
					DEPTH (ft)								
310		38.50 - 45.00 ML, SILT, with trace fine sand, non plastic; white to bronze, weathered, biotite gneiss saprolite; cohesive, moist, soft, W<PL. <i>(Continued)</i>	ML										<p>WELL CASING Interval: 0-29.3' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p>WELL SCREEN Interval: 33.8-43.8' Material: Schedule 40 PVC Pre-Pack Diameter: 2 Slot Size: 0.010 End Cap: 43.8-44.2'</p> <p>FILTER PACK Interval: 32-44.2' Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 29.3-32' Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-29.3' Type: Pure Gold Grout (70:30)</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5' Aluminum</p> <p>DRILLING METHODS Soil Drill: 4.25 inch HSA Rock Drill: None</p>
45		Boring completed at 45.00 ft			309.3	S7	DO	8-12-13	25	1.33 1.50			
305													
50													
300													
55													
295													
60													
290													
65													
285													
70													
280													
75													
275													
80													

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 4/13/17



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-42S

SHEET 1 of 1

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 32.20 ft
 LOCATION: Aera A

DRILL RIG: CME 550
 DATE STARTED: 2/8/17
 DATE COMPLETED: 2/9/17

NORTHING: 1,162,845.70
 EASTING: 2,562,735.00
 GS ELEVATION: 359.0
 TOC ELEVATION: 361.66 ft

DEPTH W.L.: 20.84
 ELEVATION W.L.: 338.16
 DATE W.L.: 2/10/2017
 TIME W.L.: 10:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0		0.00 - 10.00 Boring was Hydrovacuum for the first 10 feet.									Pure Gold Grout (70:30) with Aluminum Protective Casing	WELL CASING Interval: 0-14' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw WELL SCREEN Interval: 21.8-31.8 Material: Schedule 40 PVC Pre-Pack Diameter: 2 Slot Size: 0.010 End Cap: 31.8-32.2' FILTER PACK Interval: 16.2-32.2' Type: FilterSil FILTER PACK SEAL Interval: 14-16.2' Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-16.2 Type: Pure Gold Grout (70:30) WELL COMPLETION Pad: 4' x 4' Protective Casing: 4" x 4" x 5' Aluminum DRILLING METHODS Soil Drill: 4.25 inch HSA Rock Drill: None
10		10.00 - 28.50 SM, SILTY SAND, fine to medium grained, non-plastic; brown to black to white, non-cohesive, dry, compact, W<PL. **Becomes more saprolitic with depth.										
15					S1	DO	4-5-8	13	1.50 1.50		3/8" PEL-PLUG Bentonite Pellets	
20			SM		S2	DO	4-11-20	31	1.33 1.50			FilterSil
25					S3	DO	14-40-50/5	90/11	1.18 1.50		0.010" Slotted Schedule 40 PVC Pre-Pack Screen	
30		28.50 - 32.20 SP, SAND, medium grained, with trace silt, non-plastic; black; non-cohesive, moist, very dense, W<PL. Auger Refusal.			S4	DO	50/2	50/2	0.17 1.50			
32.20		Boring completed at 32.20 ft										

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 4/13/17



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-43

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 41.50 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/6/18
 DATE COMPLETED: 2/7/18

NORTHING: 1,162,159.80
 EASTING: 2,562,031.30
 GS ELEVATION: 381.0
 TOC ELEVATION: 383.71 ft

DEPTH W.L.: 30.60
 ELEVATION W.L.: 350.4
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	380	0.00 - 8.50 Soil was removed by Hydorvac to 8.5 ft bgs							<p>WELL CASING Interval: 0-30 Material: Schedule 40 PVC Diameter: 2 inch Joint Type: Screw</p> <p>WELL SCREEN Interval: 30.0-40.0 Material: .010 Slotted Screen Diameter: 1 inch Slot Size: .010" End Cap: 40-40.4</p> <p>FILTER PACK Interval: 28.0-41.5 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 23.0-28.0 Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-23.0 Type: Portland Cement and Quikrete</p> <p>WELL COMPLETION Pad: NA Protective Casing: 4"x4"x5'</p> <p>DRILLING METHODS Soil Drill: Rotasonic Rock Drill: Core</p>
5	375								
10	370	8.50 - 17.00 Fill, Silty Sand, sands f-m, reddish brown, micaceous, non-cohesive, moist, loose.	SM	[Graphic Log]	372.5 8.50				
15	365						Portland cement/Quikrete - Grout mix		
20	360	17.00 - 39.50 Residuum, Silty Sand, sands f-c, grayish brown, micaceous, non-cohesive, moist to wet (may be some perching of water table in areas with higher fine content), loose.							
25	355						3/8" PEL-PLUG Bentonite Pellets		
30	350		SM				FilterSil		
35	345						One inch piezometer pipe		
40					341.5 39.50				

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-43

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 41.50 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/6/18
 DATE COMPLETED: 2/7/18

NORTHING: 1,162,159.80
 EASTING: 2,562,031.30
 GS ELEVATION: 381.0
 TOC ELEVATION: 383.71 ft

DEPTH W.L.: 30.60
 ELEVATION W.L.: 350.4
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	REC		
					DEPTH (ft)					
340		39.50 - 41.50 BIOTITE GNEISS, slightly weathered to fresh, very thin layer of saprolite, thinly banded, white and black, phaneritic. <i>(Continued)</i> Boring completed at 41.50 ft			339.5				<p>WELL CASING Interval: 0-30 Material: Schedule 40 PVC Diameter: 2 inch Joint Type: Screw</p> <p>WELL SCREEN Interval: 30.0-40.0 Material: .010 Slotted Screen Diameter: 1 inch Slot Size: .010" End Cap: 40-40.4</p> <p>FILTER PACK Interval: 28.0-41.5 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 23.0-28.0 Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-23.0 Type: Portland Cement and Quikrete</p> <p>WELL COMPLETION Pad: NA Protective Casing: 4"x4"x5'</p> <p>DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core</p>	

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-44

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 57.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/1/18
 DATE COMPLETED: 2/2/18

NORTHING: 1,161,724.60
 EASTING: 2,561,587.50
 GS ELEVATION: 380.5
 TOC ELEVATION: 383.04 ft

DEPTH W.L.: 24.83
 ELEVATION W.L.: 355.67
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	380	0.00 - 8.00 Soil was removed by Hydrovac from 0-8 ft bgs						Grout Mix and Stainless Steel Casing	WELL CASING Interval: 0-47 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 46.6-56.6 Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" Slotted End Cap: 56.6-57 FILTER PACK Interval: 45-57 Type: FilterSil FILTER PACK SEAL Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-40 Type: Portland Cement/Quikrete WELL COMPLETION Pad: 4'x4' Protective Casing: 4'x4"x5' DRILLING METHODS Soil Drill: Rotasonic Rock Drill: Core
5	375								
10	370	8.00 - 29.00 Fill, Sand with trace silt and gravel, reddish brown, non-cohesive, moist.		372.5 8.00				Grout Mix	
15	365								
20	360		SP-SM						
25	355								
30	350	29.00 - 48.00 Residuum, Sand with trace silt and gravel, grayish brown, micaceous, non-cohesive, moist.		351.5 29.00					
35	345		SP						
40	340								

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-44

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 57.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/1/18
 DATE COMPLETED: 2/2/18

NORTHING: 1,161,724.60
 EASTING: 2,561,587.50
 GS ELEVATION: 380.5
 TOC ELEVATION: 383.04 ft

DEPTH W.L.: 24.83
 ELEVATION W.L.: 355.67
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
45	335	29.00 - 48.00 Residuum, Sand with trace silt and gravel, grayish brown, micaceous, non-cohesive, moist. <i>(Continued)</i>	SP	[Yellow dotted pattern]	332.5			<p style="font-size: small;">3/8" PEL-PLUG Bentonite Pellets</p> <p style="font-size: small;">FilterSil</p> <p style="font-size: small;">0.010 Schedule 40 Slotted Screen</p>	<p>WELL CASING Interval: 0-47 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw</p> <p>WELL SCREEN Interval: 46.6-56.6 Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" Slotted End Cap: 56.6-57</p> <p>FILTER PACK Interval: 45-57 Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0-40 Type: Portland Cement/Quikrete</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5'</p> <p>DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core</p>
50	330	48.00 - 51.00 Saprolite, recovered as rock flour, gravel, and cobbles.	GP-GM	[Blue triangle pattern]	48.00				
55	325	51.00 - 57.00 BIOTITE GNEISS, slightly weathered to fresh, white/black, phaneritic, strong.		[Red horizontal line pattern]	329.5				
		Boring completed at 57.00 ft			323.5				
60	320								
65	315								
70	310								
75	305								
80	300								

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-46

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 47.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/5/18
 DATE COMPLETED: 2/5/18

NORTHING: 1,162,756.20
 EASTING: 2,560,559.00
 GS ELEVATION: 382.1
 TOC ELEVATION: 384.64 ft

DEPTH W.L.: 8.85
 ELEVATION W.L.: 373.25
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 8.00 Soil was removed by Hydrovac from 0-8 ft bgs.						Grout mix and stainless steel casing	WELL CASING Interval: 0-35.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 35.6-45.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 45.6-47 FILTER PACK Interval: 34-46 Type: FilterSil FILTER PACK SEAL Interval: 29-34 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-29 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
380									
5									
375									
10		8.00 - 37.00 Residuum, silty Sand, sands f-c, dark brown, micaceous, non-cohesive, moist, loose.		SM	374.1 8.00			Portland cement/quikrete grout mix	
370									
15									
365									
20									
360									
25									
355									
30								3/8" PEL-PLUG Bentonite Pellets	
350									
35								FilterSil	
345		37.00 - 39.00 Saprolite, BIOTITE GNEISS, core presented as rock flour, and gravel/cobbles, black and white with light green coating around rock, highly mafic, thinly laminated, fine grained, soft.			GP-GM	345.1 37.00			
40		39.00 - 47.00 BIOTITE GNEISS, slightly weathered to fresh, thickly banded, white and black, phaneritic, very strong.				343.1 39.00		0.010" Slotted Schedule 40 PVC	

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-46

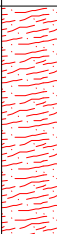
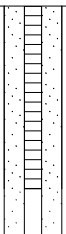
SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 47.00 ft
 LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
 DATE STARTED: 2/5/18
 DATE COMPLETED: 2/5/18

NORTHING: 1,162,756.20
 EASTING: 2,560,559.00
 GS ELEVATION: 382.1
 TOC ELEVATION: 384.64 ft

DEPTH W.L.: 8.85
 ELEVATION W.L.: 373.25
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
340		39.00 - 47.00 BIOTITE GNEISS, slightly weathered to fresh, thickly banded, white and black, phaneritic, very strong. <i>(Continued)</i>							WELL CASING Interval: 0-35.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 35.6-45.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 45.6-47
335		Boring completed at 47.00 ft			335.1				FILTER PACK Interval: 34-46 Type: FilterSil FILTER PACK SEAL Interval: 29-34 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-29 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
45									
50									
55									
60									
65									
70									
75									
80									

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-48

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 67.00 ft
 LOCATION: South of Skills Center

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/24/18
 DATE COMPLETED: 1/25/18

NORTHING: 1,163,046.70
 EASTING: 2,558,444.60
 GS ELEVATION: 418.3
 TOC ELEVATION: 420.90 ft

DEPTH W.L.: 30.55
 ELEVATION W.L.: 387.75
 DATE W.L.: 2/14/18
 TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 8.00 Soil removed by Hydrovac from 0-8 ft bgs.							Grout mix with stainless steel casing	WELL CASING Interval: 0-56.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw WELL SCREEN Interval: 56.6-66.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 66.6-67 FILTER PACK Interval: 55-67 Type: FilterSil FILTER PACK SEAL Interval: 50-55 Type: 3/8" PEL-PLUG Bentonite Pellets ANNULUS SEAL Interval: 0-50 Type: Portland Cement/Quikrete grout mix WELL COMPLETION Pad: 4'x4' Protective Casing: 4"x4"x5' DRILLING METHODS Soil Drill: Rotosonic Rock Drill: Core
415										
5										
410		8.00 - 17.00 Fill, silty Sand, reddish brown, micaceous, moist, non-cohesive.			410.3 8.00					
10										
405			SM							
15										
400		17.00 - 64.50 Residuum, Sand with some silt, grayish brown with white mottling, occasional relic structure, micaceous, dry, non-cohesive.			401.3 17.00					
20										
395										
25								Portland Cement/Quikrete grout mix		
390										
30			SM							
385										
35										
380										
40										

Log continued on next page

BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-48

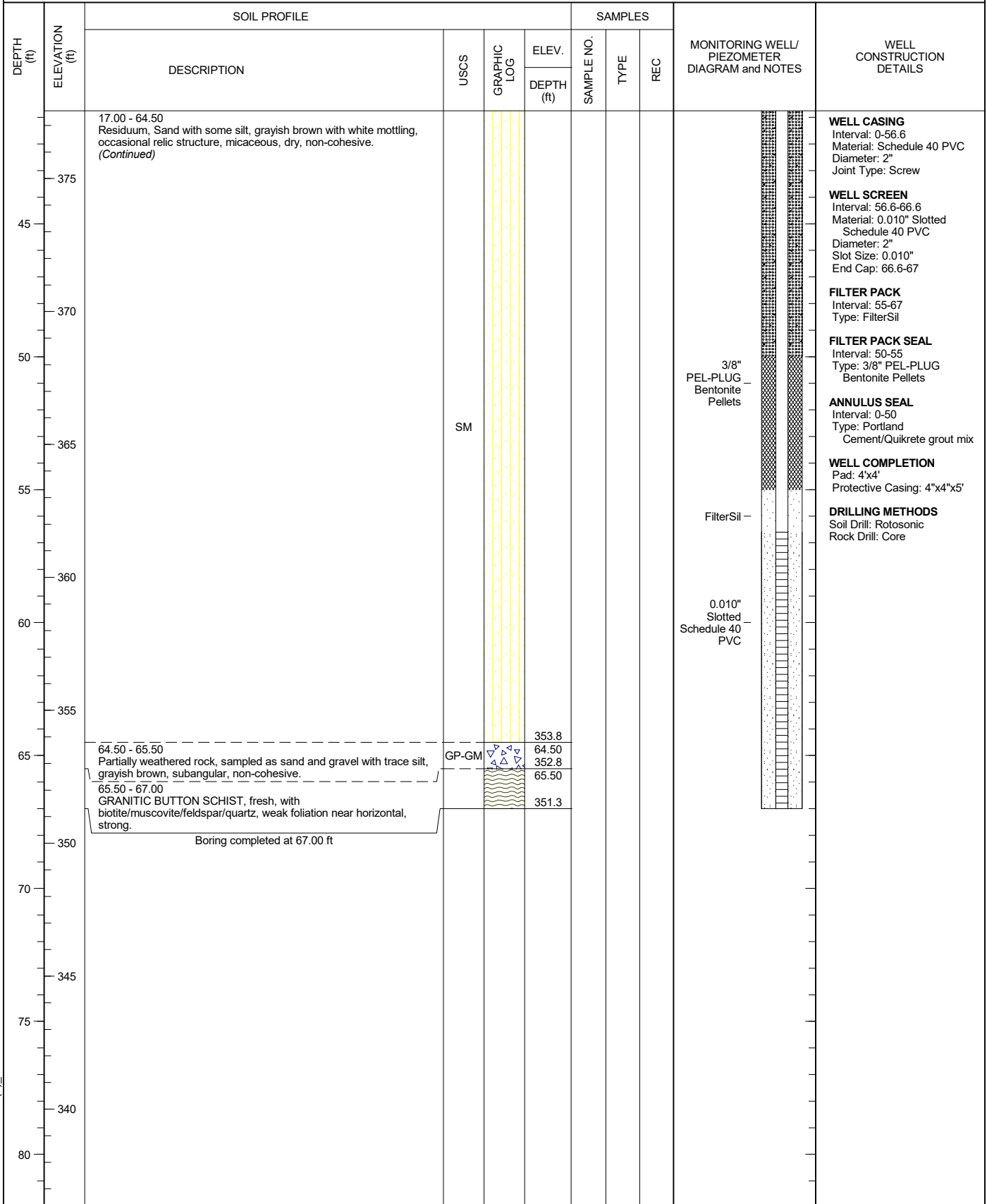
SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 67.00 ft
 LOCATION: South of Skills Center

DRILL RIG: Pro Sonic 150
 DATE STARTED: 1/24/18
 DATE COMPLETED: 1/25/18

NORTHING: 1,163,046.70
 EASTING: 2,558,444.60
 GS ELEVATION: 418.3
 TOC ELEVATION: 420.90 ft

DEPTH W.L.: 30.55
 ELEVATION W.L.: 387.75
 DATE W.L.: 2/14/18
 TIME W.L.:



BOREHOLE RECORD 1666254-01 (1)_SURVEY_UPDATED.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Matt Pope

GA INSPECTOR: David Hannam
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 5/31/18



RECORD OF BOREHOLE PZ-50D

SHEET 1 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 136.00 ft
 LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/5/20
 DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
 EASTING: 2,562,381.2
 GS ELEVATION: 378.3
 TOC ELEVATION: 380.86 ft

DEPTH W.L.: 21.72
 ELEVATION W.L.: 356.58
 DATE W.L.: 10/8/2020
 TIME W.L.: 12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES PZ-50D	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 6.00 HYDROVAC HOLE BACKFILL, SM; SILTY SAND, red, micaceous, highly weathered, non-cohesive, loose, wet	SM		372.3 6.00	1	ROTO SONIC	2.00 6.00	WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 93.9'-108.1' Type: #1 Sand Quantity: 4 - 50lb bags FILTER PACK SEAL Interval: 89.7'-93.9' Type: 3/8" Pel-Plud Quantity: 1 5 gallon bucket ANNULUS SEAL Interval: 0'-89.7' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic
375		6.00 - 10.50 SC; CLAYEY SAND WITH SILT, red, micaceous, highly weathered, RESIDUUM, non-cohesive, loose to compact, wet	SC		367.8 10.50	2	ROTO SONIC	8.00 10.00	
5		10.50 - 14.00 SM; SILTY SAND WITH SOME CLAY, gray with red/orange clay, micaceous, highly weathered RESIDUUM, non-cohesive, loose, moist to wet	SM		364.3 14.00	3	ROTO SONIC	5.00 10.00	
10		14.00 - 23.00 SC-CL; SANDY CLAY/CLAYEY SAND, red/orange, micaceous, moderately to highly weathered RESIDUUM, cohesive, very soft to firm, w>PL	CL		355.3 23.00	4	ROTO SONIC	9.40 10.00	
15		23.00 - 26.00 SM; SILTY SAND WITH SOME CLAY, grey with red/orange, micaceous, moderately to highly weathered RESIDUUM, non-cohesive, very loose to loose, dry	SM		352.3 26.00	5	ROTO SONIC	10.00 10.00	
20		26.00 - 56.00 SC-CL; SANDY CLAY/CLAYEY SAND, grey with red/orange, micaceous, moderately weathered RESIDUUM, cohesive, very soft to stiff, w~PL	CL						

Log continued on next page

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-50D



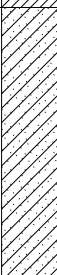


SHEET 2 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 136.00 ft
 LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/5/20
 DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
 EASTING: 2,562,381.2
 GS ELEVATION: 378.3
 TOC ELEVATION: 380.86 ft

DEPTH W.L.: 21.72
 ELEVATION W.L.: 356.58
 DATE W.L.: 10/8/2020
 TIME W.L.: 12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES PZ-50D	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
40		26.00 - 56.00 SC-CL; SANDY CLAY/CLAYEY SAND, grey with red/orange, micaceous, moderately weathered RESIDUUM, cohesive, very soft to stiff, w~PL (Continued)	CL		322.3	5	ROTO SONIC	10.00 10.00		WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 93.9'-108.1' Type: #1 Sand Quantity: 4 - 50lb bags FILTER PACK SEAL Interval: 89.7'-93.9' Type: 3/8" Pel-Plud Quantity: 1 5 gallon bucket ANNULUS SEAL Interval: 0'-89.7' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic
335	45				56.00 - 63.00 SC-CL; CLAYEY SAND/SANDY CLAY, with silt and trace gravels of gneiss, brown/grey, micaceous, moderately to highly weathered SAPROLITE, non-cohesive, loose to compact, moist	SC		315.3		
350	60	63.00 - 66.00 BIOTITE GNEISS, BEDROCK, trace silt and clay, TWR transitioning to highly weathered Gneiss bedrock, grey with black/white banding, qtz, feldspar, mica and amphibole, non-cohesive, loose to compact; moist	TWR		312.3	8	ROTO SONIC	10.00 10.00		
365	65				66.00 - 106.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately to highly weathered ; strength index: R3-R4	Gneiss		300	9	ROTO SONIC
380	75	Log continued on next page								

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-50D

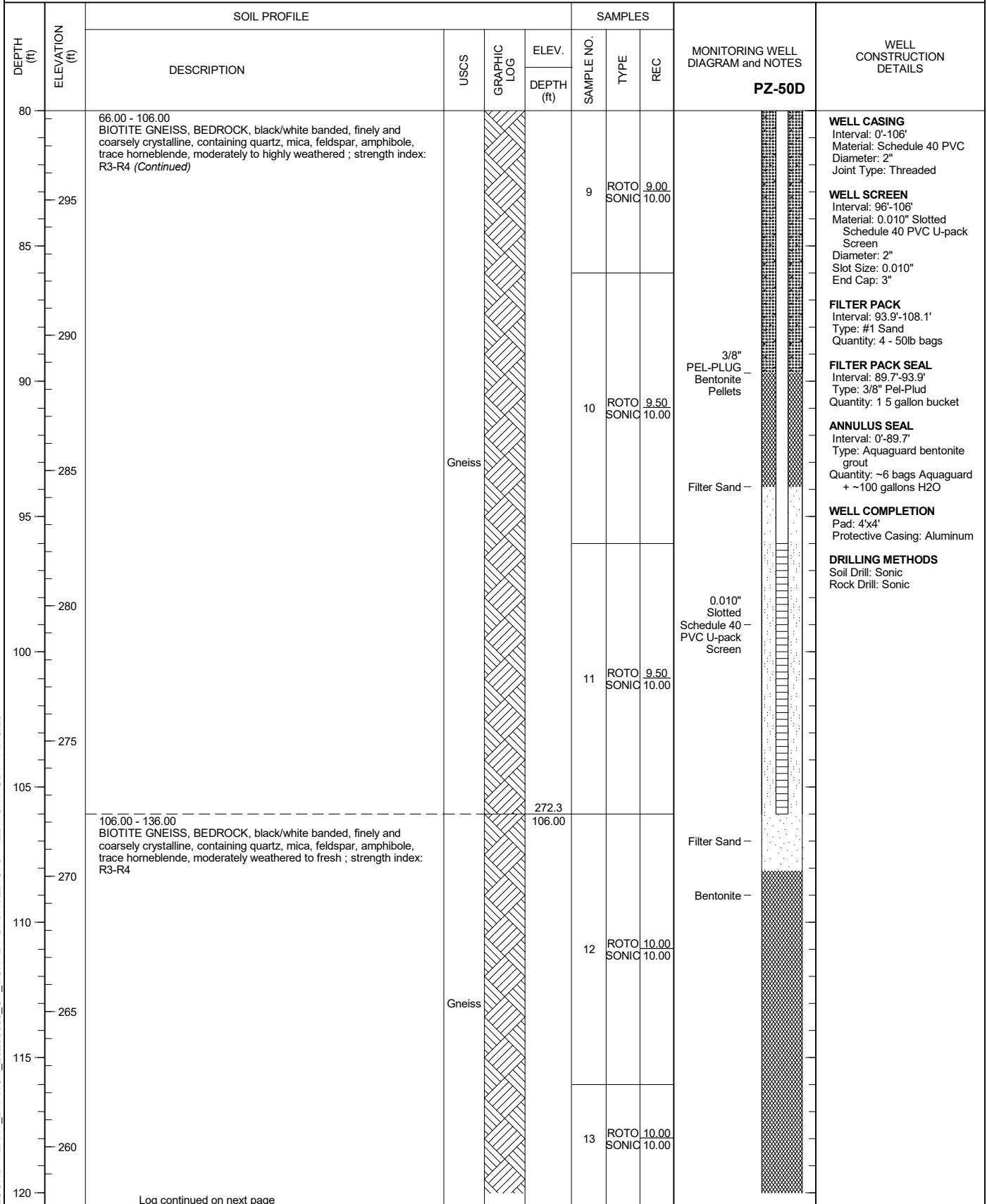
SHEET 3 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 136.00 ft
 LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/5/20
 DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
 EASTING: 2,562,381.2
 GS ELEVATION: 378.3
 TOC ELEVATION: 380.86 ft

DEPTH W.L.: 21.72
 ELEVATION W.L.: 356.58
 DATE W.L.: 10/8/2020
 TIME W.L.: 12:45



BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

Log continued on next page

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-50D



SHEET 4 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 136.00 ft
 LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/5/20
 DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
 EASTING: 2,562,381.2
 GS ELEVATION: 378.3
 TOC ELEVATION: 380.86 ft

DEPTH W.L.: 21.72
 ELEVATION W.L.: 356.58
 DATE W.L.: 10/8/2020
 TIME W.L.: 12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
120		106.00 - 136.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh ; strength index: R3-R4 (Continued)	Gneiss						WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 93.9'-108.1' Type: #1 Sand Quantity: 4 - 50lb bags FILTER PACK SEAL Interval: 89.7'-93.9' Type: 3/8" Pel-Plud Quantity: 1 5 gallon bucket ANNULUS SEAL Interval: 0'-89.7' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic	
255					13	ROTO SONIC	10.00 10.00			
125										
250										
130					14	ROTO SONIC	10.00 10.00			
245										
135				242.3						
		Boring completed at 136.00 ft								
240										
140										
235										
145										
230										
150										
225										
155										
220										
160										

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51S

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 50.00 ft
 LOCATION: East of Coal Pile near Lake

DRILL RIG: 8140LC
 DATE STARTED: 8/2/18
 DATE COMPLETED: 8/2/18

NORTHING: 1,161,613.40
 EASTING: 2,562,433.10
 GS ELEVATION: 377.9
 TOC ELEVATION: 380.27 ft

DEPTH W.L.: 35.6
 ELEVATION W.L.: 342.3
 DATE W.L.: 8/1/2018
 TIME W.L.: 14:56:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 10.00 Soil was hydrovacuumed to 10 feet.							WELL CASING Interval: 0'-50' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 40.0'-45.0' Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 35.7'-47' Type: #1 Sand FILTER PACK SEAL Interval: 45.4'-47.0' Type: 3/8" PEL-PLUG ANNULUS SEAL Interval: 0'-33.2' Type: AquaGuard Bentonite WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Geoprobe Rock Drill: N/A
375									
5									
370									
10		10.00 - 20.00 Silty SAND, reddish brown, fine to medium grained, some relic structure, micaceous, cohesive, w>PL, dry, loose	SM	[Graphic Log: Dotted pattern]	367.9 10.00	S - 1	ROTO SONIC	3.70 10.00	
365									
15									
360									
20		20.00 - 30.00 Silty SAND, reddish brown with black sand intrusions, fine to medium grained, micaceous, non-cohesive, moist, loose	SM	[Graphic Log: Dotted pattern]	357.9 20.00	S - 2	ROTO SONIC	9.10 10.00	
355									
25									
350									
30		30.00 - 35.00 silty to clayey SAND, reddish brown w/ black sand intrusions, fine to medium grain, micaceous, non-cohesive, moist to wet	SC-SM	[Graphic Log: Diagonal hatching]	347.9 30.00	S - 3	ROTO SONIC	5.00 5.00	Bentonite -
345									
35		35.00 - 45.00 silty SAND, reddish brown, fine to medium grained, micaceous, non-cohesive, moist to wet	SM	[Graphic Log: Dotted pattern]	342.9 35.00	S - 4	ROTO SONIC	10.00 10.00	#1 Sand -
340									0.010" Slotted Schedule 40 -
40		Log continued on next page							

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY_UPDATED-ATL1-L-BSTEELE.GPJ | PIEDMONT.GDT: 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51S

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 50.00 ft
 LOCATION: East of Coal Pile near Lake

DRILL RIG: 8140LC
 DATE STARTED: 8/2/18
 DATE COMPLETED: 8/2/18

NORTHING: 1,161,613.40
 EASTING: 2,562,433.10
 GS ELEVATION: 377.9
 TOC ELEVATION: 380.27 ft

DEPTH W.L.: 35.6
 ELEVATION W.L.: 342.3
 DATE W.L.: 8/1/2018
 TIME W.L.: 14:56:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
40		35.00 - 45.00 silty SAND, reddish brown, fine to medium grained, micaeous, non-cohesive, moist to wet (<i>Continued</i>)	SM		332.9	S - 4	ROTO SONIC	10.00 10.00	
335	45.00								
45		45.00 - 50.00 high plastic CLAY with some sand, dark brown, fine to coarse sand, dark brown, cohesive, dry, firm to stiff	CH		327.9	S - 5	ROTO SONIC	5.00 5.00	
330									
50		Boring completed at 50.00 ft							
55									
60									
65									
70									
75									
80									

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY_UPDATED-ATL1-L-BSTEELE.GPJ_PIEDMONT.GDT_8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-511

SHEET 1 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 65.00 ft
 LOCATION: East of Pond B

DRILL RIG: 8140LC
 DATE STARTED: 8/1/18
 DATE COMPLETED: 8/1/18

NORTHING: 1,161,631.10
 EASTING: 2,562,439.30
 GS ELEVATION: 378.0
 TOC ELEVATION: 380.52 ft

DEPTH W.L.: 35.20'
 ELEVATION W.L.: 342.8
 DATE W.L.: 8/3/2018
 TIME W.L.: 08:33:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 10.00 Soil was hydrovacuumed to 10 feet.							<p>WELL CASING Interval: 0'-65' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 54.9-64.9' Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 52.5'-65.0' Type: #1 Sand</p> <p>FILTER PACK SEAL Interval: 49.2'-52.5' Type: 3/8" PEL-PLUG</p> <p>ANNULUS SEAL Interval: 0'-49.2' Type: Portland Cement and Quick Gel Bentonite Mix</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Geoprobe Rock Drill: N/A</p>
375									
5									
370									
10		10.00 - 20.00 silty SAND, reddish brown with white mottling, fine to coarse, some relic structure, non-cohesive, dy, loose	SM	[Graphic Log]	368 10.00	S - 1	ROTO SONIC <u>2.70</u> 10.00		
365									
15									
360									
20		20.00 - 25.00 silty SAND with trace gravel, fine to coarse	SM	[Graphic Log]	358 20.00	S - 2	ROTO SONIC <u>4.00</u> 5.00		
355									
25		25.00 - 35.00 silty SAND with some boulders > 3inches, dark brown fine to coarse, non-cohesive, dry, loose to compact	SM	[Graphic Log]	353 25.00	S - 3	ROTO SONIC <u>8.40</u> 10.00		
350									
30									
345									
35		35.00 - 45.00 silty SAND, fine to coarse, relic granitic structure, micaeous, non-cohesive, moist, loose to compact	SM	[Graphic Log]	343 35.00	S - 4	ROTO SONIC <u>5.50</u> 10.00		
340									
40		Log continued on next page							

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY_UPDATED-ATL1-L-BSTEELE.GPJ_PIEDMONT.GDT_8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M. Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-511

SHEET 2 of 2

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 65.00 ft
 LOCATION: East of Pond B

DRILL RIG: 8140LC
 DATE STARTED: 8/1/18
 DATE COMPLETED: 8/1/18

NORTHING: 1,161,631.10
 EASTING: 2,562,439.30
 GS ELEVATION: 378.0
 TOC ELEVATION: 380.52 ft

DEPTH W.L.: 35.20'
 ELEVATION W.L.: 342.8
 DATE W.L.: 8/3/2018
 TIME W.L.: 08:33:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
40		35.00 - 45.00 silty SAND, fine to coarse, relic granitic structure, micaeous, non-cohesive, moist, loose to compact (<i>Continued</i>)	SM		333 45.00	S - 4	ROTO SONIC	5.50 10.00	<p style="font-size: small;">3/8" PEL-PLUG Bentonite Pellets</p> <p style="font-size: small;">FilterSil -</p> <p style="font-size: small;">0.010" Slotted Schedule 40 PVC Pre-Pack Screen</p>	<p>WELL CASING Interval: 0'-65' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 54.9-64.9' Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 52.5'-65.0' Type: #1 Sand</p> <p>FILTER PACK SEAL Interval: 49.2'-52.5' Type: 3/8" PEL-PLUG</p> <p>ANNULUS SEAL Interval: 0'-49.2' Type: Portland Cement and Quick Gel Bentonite Mix</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Geoprobe Rock Drill: N/A</p>
335										
45		45.00 - 53.50 high plastic CLAY, clay with some sand, sand fine to medium, light reddish brown, cohesive, moist to wet, stiff	CH		324.5 53.50	S - 5	ROTO SONIC	8.50 8.50		
330										
50										
325		53.50 - 55.00 silty Sand, reddish brown, relic foliation, micaceous, moist, loose to compact	SM		323 55.00	S - 6	ROTO SONIC	- 6.50		
55		55.00 - 58.00 Saprolite, silty SAND with some gravel, sand and gravel fine to coarse	SM		320 58.00	S - 7	ROTO SONIC	3.10 5.00		
320		58.00 - 60.00 BIOTITE GNEISS, gravel, highly weathered, very weak dry	BR		318 60.00					
60		60.00 - 65.00 BIOTITE GNEISS, banded white with dark brown, large grained, highly weathered, strong	BR		313					
315		Boring completed at 65.00 ft								
65										
310										
70										
305										
75										
300										
80										

BOREHOLE RECORD PLANT BRANCH 20200603 SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental, LLC
 DRILLER: M. Rodriguez

GA INSPECTOR: Ben Hodges
 CHECKED BY: Rachel Kirkman, PG
 DATE: 9/6/18



RECORD OF BOREHOLE PZ-51D

SHEET 1 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 126.00 ft
 LOCATION: Adjacent to PZ-511

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/8/20
 DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
 EASTING: 2,562,434.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.75 ft

DEPTH W.L.: 38.36'
 ELEVATION W.L.: 339.74
 DATE W.L.: 10/14/2020
 TIME W.L.: 11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 6.00 HYDROVAC HOLE BACKFILL, SM; SILTY SAND, red, micaceous, highly weathered, non-cohesive, loose, wet	SM		372.1 6.00	1	ROTO SONIC	2.70 6.00	PZ-51D Aquaguard Bentonite Riser	<p>WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 93.6'-108.2 Type: #1 Sand Quantity: 5 - 50lb bags</p> <p>FILTER PACK SEAL Interval: 89.5'-93.6' Type: 3/8" Pel-Plug Quantity: 1 x 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0'-89.5' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic</p>
375		6.00 - 12.00 CL; SANDY CLAY, red/orange; highly weathered RESIDUUM, cohesive, firm, w-PL	CL		366.1 12.00	2	ROTO SONIC	5.00 10.00		
5		12.00 - 36.00 SM; SILTY SAND, trace clay and gravel, gray with red/orange clay, micaceous, highly weathered RESIDUUM, non-cohesive, loose, dry to moist	SM			3	ROTO SONIC	4.10 10.00		
10						4	ROTO SONIC	6.20 10.00		
15						5	ROTO SONIC	0.00 10.00		
370		36.00 - 46.00 No Recovery	SM		342.1 36.00					
370										
375										
380										
385										
390										
395										
400										

Log continued on next page

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-51D

SHEET 2 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 126.00 ft
 LOCATION: Adjacent to PZ-511

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/8/20
 DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
 EASTING: 2,562,434.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.75 ft

DEPTH W.L.: 38.36'
 ELEVATION W.L.: 339.74
 DATE W.L.: 10/14/2020
 TIME W.L.: 11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		36.00 - 46.00 No Recovery (Continued)	SM	[Dotted Pattern]	332.1 46.00	5	ROTO SONIC	0.00 10.00		<p>WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 93.6'-108.2 Type: #1 Sand Quantity: 5 - 50lb bags</p> <p>FILTER PACK SEAL Interval: 89.5'-93.6' Type: 3/8" Pel-Plug Quantity: 1 x 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0'-89.5' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic</p>
45		46.00 - 57.70 CH; SANDY-SILTY CLAY, dark brown/grey, micaceous, moderately weathered RESIDUUM, cohesive, stiff to very stiff, w<PL to w~PL	CH	[Diagonal Hatching]	320.4 57.70	6	ROTO SONIC	10.00 10.00		
50		57.70 - 65.00 SM; SILTY SAND WITH GRAVEL, trace clay, brown and light tan, micaceous, slightly weathered SAPROLITE, non-cohesive, loose to compact, dry	SM	[Dotted Pattern]	313.1 65.00	7	ROTO SONIC	10.00 10.00		
55		65.00 - 74.10 GM; SILTY-SANDY GRAVEL, gravels of gneiss with black/white banding; highly weathered TWR, non-cohesive, dense, wet (possibly from drilling water), no recovery from 66-74.1.	TWR	[Gravel Pattern]	304 74.10	8	ROTO SONIC	1.90 10.00		
60		74.10 - 96.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered; strength index: R3-R4	Gneiss	[Complex Geologic Pattern]		9	ROTO SONIC	9.50 10.00		
65		Log continued on next page								

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-51D

SHEET 3 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 126.00 ft
 LOCATION: Adjacent to PZ-511

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/8/20
 DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
 EASTING: 2,562,434.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.75 ft

DEPTH W.L.: 38.36'
 ELEVATION W.L.: 339.74
 DATE W.L.: 10/14/2020
 TIME W.L.: 11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
80		74.10 - 96.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered; strength index: R3-R4 <i>(Continued)</i>		Gneiss				3/8" PEL-PLUG Bentonite Pellets	WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 93.6'-108.2 Type: #1 Sand Quantity: 5 - 50lb bags FILTER PACK SEAL Interval: 89.5'-93.6' Type: 3/8" Pel-Plug Quantity: 1 x 5 gallon bucket ANNULUS SEAL Interval: 0'-89.5' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic
295					9	ROTO SONIC	9.50 10.00		
85		96.00 - 106.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, highly weathered; strength index: R2-R3		Gneiss				Filter Sand	
290					282.1	96.00			
90		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh; strength index: R3-R4		Gneiss				0.010" Slotted Schedule 40 PVC U-pack Screen	
285					272.1	106.00			
95		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh; strength index: R3-R4		Gneiss				Filter Sand	
280					11	ROTO SONIC	9.50 10.00		
100		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh; strength index: R3-R4		Gneiss				Bentonite	
275					12	ROTO SONIC	10.00 10.00		
105		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh; strength index: R3-R4		Gneiss					
270					13	ROTO SONIC	9.50 10.00		
110									
265									
115									
260									
120									

Log continued on next page

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ_PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-51D

SHEET 4 of 4

PROJECT: Plant Branch
 PROJECT NUMBER: 1666254-01
 DRILLED DEPTH: 126.00 ft
 LOCATION: Adjacent to PZ-511

DRILL RIG: TSI 150T Truck Mounted
 DATE STARTED: 10/8/20
 DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
 EASTING: 2,562,434.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.75 ft

DEPTH W.L.: 38.36'
 ELEVATION W.L.: 339.74
 DATE W.L.: 10/14/2020
 TIME W.L.: 11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC				
120		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace hornblende, moderately weathered to fresh; strength index: R3-R4 (Continued)	Gneiss					13	ROTO SONIC	9.50 10.00		<p>WELL CASING Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 93.6'-108.2 Type: #1 Sand Quantity: 5 - 50lb bags</p> <p>FILTER PACK SEAL Interval: 89.5'-93.6' Type: 3/8" Pel-Plug Quantity: 1 x 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0'-89.5' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic</p>
255						252.1						
125		Boring completed at 126.00 ft										
250												
130												
245												
135												
240												
140												
235												
145												
230												
150												
225												
155												
220												
160												

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY_UPDATED.GPJ PIEDMONT.GDT 11/18/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 11/12/20



RECORD OF BOREHOLE PZ-571





SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 77.40 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/23/21
 DATE COMPLETED: 3/24/21

NORTHING: 1,161,582.20
 EASTING: 2,562,170.20
 GS ELEVATION: 379.4
 TOC ELEVATION: 382.50 ft

DEPTH W.L.: 36.48
 ELEVATION W.L.: 346.02
 DATE W.L.: 4/6/21
 TIME W.L.: 15:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 6.00 HYDROVAC HOLE, [BACKFILL], SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM			1		2.00 6.50	Bentonite Grout	WELL CASING Interval: 0'-65.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 65.6'-75.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4" FILTER PACK Interval: 63.3'-77.4' Type: #1 sand Quantity: 4.25 x 14L bags FILTER PACK SEAL Interval: 60.2'-63.3' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gallon bucket ANNULUS SEAL Interval: 0'-60.2' Type: Aquaguard bentonite grout Quantity: 4 bags + 70 gal H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic
375		6.00 - 11.00 No Recovery, washout			373.4 6.00					
370		11.00 - 13.00 (RESIDUUM) SM, silty sand/sandy silt, brown, black, tan, micaceous, highly weathered, non-cohesive, loose. Weathered biotite gneiss piece at 11.25'	SM		368.4 11.00	2		5.00 10.00		
365		13.00 - 14.00 SM-SC, sandy silt/sandy clay, reddish brown; moderately to highly weathered, medium plasticity clay, non-cohesive, loose	SM-SC		366.4 13.00 365.4					
15		14.00 - 16.50 SM, silty sand/sandy silt, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		362.9 16.50					
360		16.50 - 20.50 No Recovery. 2" lens of saprolite at 20.5'								
20		20.50 - 22.50 SM, silty sand/sandy silt with trace clay, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		358.9 20.50	3		6.00 10.00		
355		22.50 - 23.50 SM-SC, sandy silt/sandy clay, reddish brown, highly weathered, non-cohesive, loose	SM-SC		356.9 22.50 355.9					
25		23.50 - 26.50 SM, silty sand/sandy silt, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		352.9 26.50					
350		26.50 - 35.00 SC, sandy clay/clayey sand, high plasticity clay, brown and grey	SC		344.4 35.00	4		10.00 10.00		
35		35.00 - 36.50 SM, silty sand/sandy silt, brown, micaceous, moderately to highly weathered, loose, saprolite	SM-SC		342.9 36.50					
345		36.50 - 40.50 No Recovery, washout								
340		40.50 - 41.50 SM-SC, silty sand/sandy silt and sandy clay, medium plasticity clay, greyish brown, moderately to highly weathered, cohesive, firm	SM-SC		338.9 40.50 337.9	5		6.00 10.00		
335		41.50 - 54.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff	SC-CL		41.50					
330		Log continued on next page				6	8.00 10.00			

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-571

SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 77.40 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/23/21
 DATE COMPLETED: 3/24/21

NORTHING: 1,161,582.20
 EASTING: 2,562,170.20
 GS ELEVATION: 379.4
 TOC ELEVATION: 382.50 ft

DEPTH W.L.: 36.48
 ELEVATION W.L.: 346.02
 DATE W.L.: 4/6/21
 TIME W.L.: 15:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		41.50 - 54.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff <i>(Continued)</i>	SC-CL	[Hatched Pattern]	325.4	6	[Photo]	8.00 10.00	3/8" Pel-Plug Benotite Pellets	<p>WELL CASING Interval: 0'-65.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 65.6'-75.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4"</p> <p>FILTER PACK Interval: 65.6'-77.4' Type: #1 sand Quantity: 4.25 x 14L bags</p> <p>FILTER PACK SEAL Interval: 60.2'-63.3' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0'-60.2' Type: Aquaguard bentonite grout Quantity: 4 bags + 70 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic</p>
55	325	54.00 - 56.50 SM, silty sand/sandy silt, brown, micaceous, moderately to highly weathered, non-cohesive, loose	SM	[Vertical Lines]	54.00					
		56.50 - 58.50 No Recovery, washout			322.9					
60	320	58.50 - 63.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff	SC-CL	[Hatched Pattern]	56.50	7	[Photo]	8.00 10.00	#1 Filter Sand	
		63.00 - 66.50 SM, silty sand/sandy silt with trace clay, greyish brown with some tan, micaceous with biotite and quartz, some saprolite, non-cohesive, loose	SM	[Vertical Lines]	320.9					
65	315	66.50 - 77.40 Transitionally weathered rock (TWR) GM, silty sandy gravel, gravel sized fragments of gneiss with black and white banding, non-cohesive	TWR	[Circular Pattern]	63.00	8	[Photo]	10.00 10.00	0.010" Slotted Schedule 40 PVC U-pack Screen	
70	310				312.9					
75	305				66.50				Sump	
80	300	Boring completed at 77.40 ft				302				

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-581

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 66.80 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/25/21
 DATE COMPLETED: 3/27/21

NORTHING: 1,161,579.10
 EASTING: 2,562,297.90
 GS ELEVATION: 379.3
 TOC ELEVATION: 382.27 ft

SHEET 1 of 2

DEPTH W.L.: 37.15
 ELEVATION W.L.: 345.12
 DATE W.L.: 4/5/21
 TIME W.L.: 14:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 5.50 SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM		5.50	1		5.50		<p>WELL CASING Interval: 0'-53.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 53.6'-63.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4"</p> <p>FILTER PACK Interval: 50'-66.8' Type: #1 sand Quantity: 4.5 x 14L bags</p> <p>FILTER PACK SEAL Interval: 46.4'-50' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket</p> <p>ANNULUS SEAL Interval: 0'-46.4' Type: Aquaguard bentonite grout Quantity: 3.5 bags + 60 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic</p> <p>NOTES Angled piezometer, drilled at 13 degrees from vertical</p>
375		5.50 - 7.50 No recovery, washout			5.50					
5		7.50 - 15.50 SM, silty sand with trace clay and gravel, brown, micaceous, highly weathered, non-cohesive, loose; 4" thick lens of clay with some sand at 9.5', w>PL; below clay 4" biotite gneiss riprap; trace angular gravels of biotite gneiss with biotite, quartz and plagioclase throughout run	SM		7.50	2		8.00 10.00		
10		15.50 - 19.50 No recovery, washout			15.50					
15		19.50 - 25.50 SM, silty sand with trace clay and gravel, brown, micaceous, highly weathered, non-cohesive, loose; 1.5" lens of biotite gneiss riprap; cobble-size gravels of biotite gneiss with biotite, quartz and plagioclase	SM		19.50	3		6.00 10.00		
20		25.50 - 29.50 No recovery, washout			25.50					
25		29.50 - 31.00 SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM		29.50	4		6.00 10.00		
30		31.00 - 35.00 CL; sandy clay, brown, cohesive, stiff to very stiff, w>PL	CL		31.00					
35		35.00 - 35.50 OL, organic soils, black, roots and plant materials visible with sandy silt mixed, non-cohesive, loose	OL		35.50					
35		35.50 - 39.00 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, stiff to very stiff, w>PL	CH		39.00	5		10.00 10.00		
40		39.00 - 43.00 SM, silty sand, reddish brown, micaceous, cohesive	SM		43.00					
45		43.00 - 45.50 GM, silty sandy gravel, light tan to grey, biotite gneiss gravels and cobbles, biotite, quartz, plagioclase; non-cohesive, loose	GM		45.50					
45		45.50 - 47.50 SM, silty sand, reddish brown, micaceous, cohesive	SM		47.50	6		3.50 3.50		
50		47.50 - 49.00 Transitionally weathered rock (TWR) GM, silty sandy gravel, light tan to grey, biotite gneiss gravels and cobbles, biotite, quartz, plagioclase; non-cohesive, loose	TWR		49.00					
		49.00 - 66.80 Bedrock			66.80	7		6.00		

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



Log continued on next page

RECORD OF BOREHOLE PZ-581







SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 66.80 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/25/21
 DATE COMPLETED: 3/27/21

NORTHING: 1,161,579.10
 EASTING: 2,562,297.90
 GS ELEVATION: 379.3
 TOC ELEVATION: 382.27 ft

DEPTH W.L.: 37.15
 ELEVATION W.L.: 345.12
 DATE W.L.: 4/5/21
 TIME W.L.: 14:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		49.00 - 51.50 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz, plagioclase, and hornblende <i>(Continued)</i>	Bedrock		327.8			6.00	#1 Filter Sand 0.010" Slotted Schedule 40 PVC U-pack Screen Sump	<p>WELL CASING Interval: 0'-53.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 53.6'-63.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4"</p> <p>FILTER PACK Interval: 50'-66.8' Type: #1 sand Quantity: 4.5 x 14L bags</p> <p>FILTER PACK SEAL Interval: 46.4'-50' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket</p> <p>ANNULUS SEAL Interval: 0'-46.4' Type: Aquaguard bentonite grout Quantity: 3.5 bags + 60 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotasonic</p> <p>NOTES Angled piezometer, drilled at 13 degrees from vertical</p>
		51.50 - 63.00 Transitionally weathered rock (TWR) SW-GW, coarse sand and gravel, brown to light brown, micaceous, non-cohesive, loose	TWR		51.50	7		6.00 6.00		
		63.00 - 66.80 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz, plagioclase, and hornblende	Bedrock		316.3	8		7.50 7.50		
					63.00	9		4.30 4.30		
		Boring completed at 66.80 ft			312.5					

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-59I







SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 66.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/30/21
 DATE COMPLETED: 3/31/21

NORTHING: 1,161,654.90
 EASTING: 2,562,329.80
 GS ELEVATION: 379.9
 TOC ELEVATION: 383.49 ft

DEPTH W.L.: 38.55
 ELEVATION W.L.: 344.91
 DATE W.L.: 4/7/21
 TIME W.L.: 07:50

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 6.00 SM, silty sand, brown to reddish brown, micaceous, highly weathered, non-cohesive, loose, moist	SM			1		6.00 6.00	Bentonite Grout	<p>WELL CASING Interval: 0'-55.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 55.6'-65.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4"</p> <p>FILTER PACK Interval: 53'-66' Type: #1 sand Quantity: 4.5x 14L bags</p> <p>FILTER PACK SEAL Interval: 49.3'-53' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket</p> <p>ANNULUS SEAL Interval: 0'-49.3' Type: Aquaguard bentonite grout Quantity: 4 bags + 70 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotasonic</p> <p>NOTES Angled piezometer, drilled at 13 degrees from vertical</p>
5	375	6.00 - 8.00 No Recovery, washout			373.9 6.00					
10	370	8.00 - 16.00 SM, silty sand, brown, grey, reddish brown, micaceous, highly weathered, non-cohesive, loose, moist	SM		371.9 8.00	2		8.00 10.00		
15	365	16.00 - 26.00 SM, silty sand, brown, grey, and greyish brown, micaceous, non-cohesive, loose, moist. Thin 0.3' lens of sandy clay at bottom of run. Some broken biotite gneiss fragments (crumbly, loose) at 24'-25'			363.9 16.00					
20	360		SM			3		9.00 10.00		
25	355				353.9 26.00					
30	350	26.00 - 31.00 SM, silty sand, brown, grey, and greyish brown, micaceous, non-cohesive, loose, wet.	SM							
35	345	31.00 - 36.00 SC-SM, sandy clay/clayey sand with interbedded sandy silt, reddish brown, cohesive, firm to stiff, w-PL to w<PL	SC-SM		348.9 31.00	4		9.00 10.00		
40	340	36.00 - 37.00 OL, organic soils, black, roots and plant material visible with sandy silt	OL		343.9 36.00					
		37.00 - 38.00 SP-GP, poorly sorted sand and gravel, black and white, fragments of biotite gneiss, biotite, quartz, and plagioclase, non-cohesive	SP-GP		37.00 341.9					
45	335	38.00 - 46.00 CH-SM, clay with silty sand, reddish brown, some organics, micaceous, cohesive, stiff to very stiff, w>PL	CH-SM			5		10.00 10.00		
50	330	46.00 - 52.00 SC-SM, sandy clay/clayey sand and silty sand, saprolite, micaceous, biotite, plagioclase, and quartz, highly weathered, cohesive, soft to firm, w-PL to w>PL	SC-SM		333.9 46.00	6		10.00 10.00		

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

Log continued on next page

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-591

SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 66.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/30/21
 DATE COMPLETED: 3/31/21

NORTHING: 1,161,654.90
 EASTING: 2,562,329.80
 GS ELEVATION: 379.9
 TOC ELEVATION: 383.49 ft

DEPTH W.L.: 38.55
 ELEVATION W.L.: 344.91
 DATE W.L.: 4/7/21
 TIME W.L.: 07:50

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50			SC-SM	[Hatched Pattern]	327.9				Benotite Pellets #1 Filter Sand 0.010" Slotted Schedule 40 PVC U-pack Screen Sump	WELL CASING Interval: 0'-55.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 55.6'-65.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4" FILTER PACK Interval: 53'-66' Type: #1 sand Quantity: 4.5x 14L bags FILTER PACK SEAL Interval: 49.3'-53' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket ANNULUS SEAL Interval: 0'-49.3' Type: Aquaguard bentonite grout Quantity: 4 bags + 70 gal H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic NOTES Angled piezometer, drilled at 13 degrees from vertical
		52.00 - 66.00 Transitionally weathered rock (TWR) SP-GW, sandy gravel with some silty sand, coarse sand, white plagioclase lens at 51', non-cohesive, loose, moist		[Graphic Log: Sandy gravel with silty sand, coarse sand, white plagioclase lens]	52.00	6	10.00 10.00			
55	325			TWR			7	10.00 10.00		
60	320									
65	315				313.9					
		Boring completed at 66.00 ft								
70	310									
75	305									
80	300									
85	295									
90	290									
95	285									
100	280									

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-601

SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 65.50 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/28/21
 DATE COMPLETED: 3/29/21

NORTHING: 1,161,588.00
 EASTING: 2,562,330.60
 GS ELEVATION: 379.5
 TOC ELEVATION: 382.61 ft

DEPTH W.L.: 37.52
 ELEVATION W.L.: 345.09
 DATE W.L.: 4/7/21
 TIME W.L.: 14:32

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 6.50 HYDROVAC HOLE, [BACKFILL], SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM			1		6.50 6.50	Bentonite Grout	WELL CASING Interval: 0'-50.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 50.5'-60.5' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"
5	375	6.50 - 9.80 No recovery, washout			373					
10	370	9.80 - 16.50 SM, silty sand with some coarse gravel, brown, micaceous, gravels of biotite gneiss, highly weathered, non-cohesive, loose	SM		9.80	2		6.70 10.00		FILTER PACK Interval: 47.5'-65.5' Type: #1 sand Quantity: 5 x 14L bags FILTER PACK SEAL Interval: 43'-47.5' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket ANNULUS SEAL Interval: 0'-43' Type: Aquaguard bentonite grout Quantity: 5 bags + 83 gal H2O
15	365	16.50 - 22.00 No recovery, washout			363					
20	360	22.00 - 22.80 SM, silty sand, brown, micaceous, cohesive, soft, w<PL	SM		357.5	3		4.50 10.00		WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic
25	355	22.80 - 23.50 SC, clayey sand/sandy clay lens, reddish brown, micaceous, cohesive, firm, w<PL	SC		356					
25	355	23.50 - 25.40 SM, silty sand, brown, micaceous, non-cohesive, loose	SM		354.1					
25	355	25.00 - 30.00 SM, silty sand, brown, micaceous, non-cohesive, loose	SM		29.00					
30	350	25.40 - 25.00 SM-GW, silty sand with gravel, brown, micaceous, cobble-sized biotite gneiss riprap layer, non-cohesive, loose	SM		349.5	4		10.00 10.00		
30	350	30.00 - 34.50 SM, silty sand with some clay, brown to reddish brown, cohesive, firm to stiff, w<PL	SM		30.00					
35	345	34.50 - 36.50 SM, silty sand, grey, micaceous, non-cohesive, loose	SM		345					
35	345	36.50 - 40.00 No recovery, washout			343					
40	340	40.00 - 40.50 SM, silty sand, grey, micaceous, non-cohesive, loose; distinct layer of organic soil with visible roots and plant material at 40.5, 1/4" thick	SM		339.5	5		6.50 10.00	3/8" Pel-Plug Benotite Pellets	
40	340	40.50 - 44.50 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH		40.50					
45	335	44.50 - 46.50 Transitionally weathered rock (TWR) SW-GW, coarse sand and coarse gravel, brown to tan, non-cohesive, loose, biotite gneis	TWR		335					
45	335	46.50 - 47.80 No recovery, washout			333					
50	330	47.80 - 50.00 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH		329.5	6		6.70 10.00	#1 Filter Sand	

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



Log continued on next page

RECORD OF BOREHOLE PZ-60I



SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 65.50 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/28/21
 DATE COMPLETED: 3/29/21

NORTHING: 1,161,588.00
 EASTING: 2,562,330.60
 GS ELEVATION: 379.5
 TOC ELEVATION: 382.61 ft

DEPTH W.L.: 37.52
 ELEVATION W.L.: 345.09
 DATE W.L.: 4/7/21
 TIME W.L.: 14:32

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO			REC
50		50.00 - 50.50 No recovery, washout 50.50 - 54.50 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH	[Hatched Pattern]	50.50	6		6.70 10.00	0.010" Slotted Schedule 40 PVC U-pack Screen Sump 3/8" Pel-Plug Benotite Pellets	WELL CASING Interval: 0'-50.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 50.5'-60.5' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 47.5'-65.5' Type: #1 sand Quantity: 5 x 14L bags FILTER PACK SEAL Interval: 43'-47.5' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket ANNULUS SEAL Interval: 0'-43' Type: Aquaguard bentonite grout Quantity: 5 bags + 83 gal H2O WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic
55	325	54.50 - 55.00 Transitionally weathered rock (TWR) coarse sand and cobbles of biotite gneiss, tan to grey, non-cohesive, loose 55.00 - 58.00 No recovery, washout	TWR	[Dotted Pattern]	325					
60	320	58.00 - 65.50 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz and hornblende	BEDROCK	[Cross-hatched Pattern]	58.00	7		7.00 10.00		
65	315	Boring completed at 65.50 ft			314					
70	310									
75	305									
80	300									
85	295									
90	290									
95	285									
100	280									

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-611


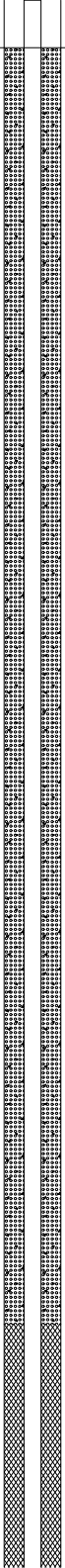





SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 75.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/29/21
 DATE COMPLETED: 3/30/21

NORTHING: 1,161,621.90
 EASTING: 2,562,429.70
 GS ELEVATION: 377.7
 TOC ELEVATION: 380.64 ft

DEPTH W.L.: 48.78
 ELEVATION W.L.: 331.86
 DATE W.L.: 4/8/21
 TIME W.L.: 13:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 2.60 SM-SC, silty sand and sandy clay with trace gravel and trace organic matter, reddish brown, quartz, plagioclase, biotite in gravels. cohesive, firm to stiff, w~PL	SM-SC		375.1	1		5.00 5.00		<p>WELL CASING Interval: 0'-65.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 65.7'-75.7' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 61'-76' Type: #1 sand Quantity: 6 x 14L bags</p> <p>FILTER PACK SEAL Interval: 42'-61' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket + 2 bags</p> <p>ANNULUS SEAL Interval: 0'-42' Type: Aquaguard bentonite grout Quantity: 4 bags + 70 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotasonic</p> <p>NOTES Angled piezometer, drilled at 32 degrees from vertical</p>
375		2.60 - 5.00 SM, silty sand, reddish brown to dark brown, micaceous, non-cohesive, loose, dry	SM		372.7					
5		5.00 - 6.00 No recovery			5.00 371.7					
370		6.00 - 15.00 SM-SC, sandy clay with ~1ft interbedded layers of silty sand, brown, greyish brown, and reddish brown, micaceous, cohesive, soft to firm (stiff from 11'-12'), w~PL to w<PL	SM-SC		6.00	2		9.00 10.00		
10										
365					362.7					
15		15.00 - 25.00 SM, sandy silt. brown, greyish brown, and tan, micaceous, non-cohesive, loose, dry	SM		15.00	3		5.00 10.00		
20										
355					352.7					
25		25.00 - 35.00 SM, sandy silt/silty sand with some gravel, brown, grey and reddish brown, grey lens of crushed rock ~27'-30'- biotite gneiss; non-cohesive, loose, dry	SM		25.00	4		4.00 10.00		
30										
345					342.7					
35		35.00 - 45.00 SM, sandy silt/silty sand, brown, grey, and reddish brown, non-cohesive, loose, dry	SM		35.00	5		3.00 10.00		
40										
335					332.7					
45		45.00 - 54.00 SM-SC, sandy silt/silty clay, brown, reddish brown, and grey, non-cohesive, loose, moist	SM-SC		45.00	6		10.00 10.00		
330										
50		Log continued on next page								

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-611

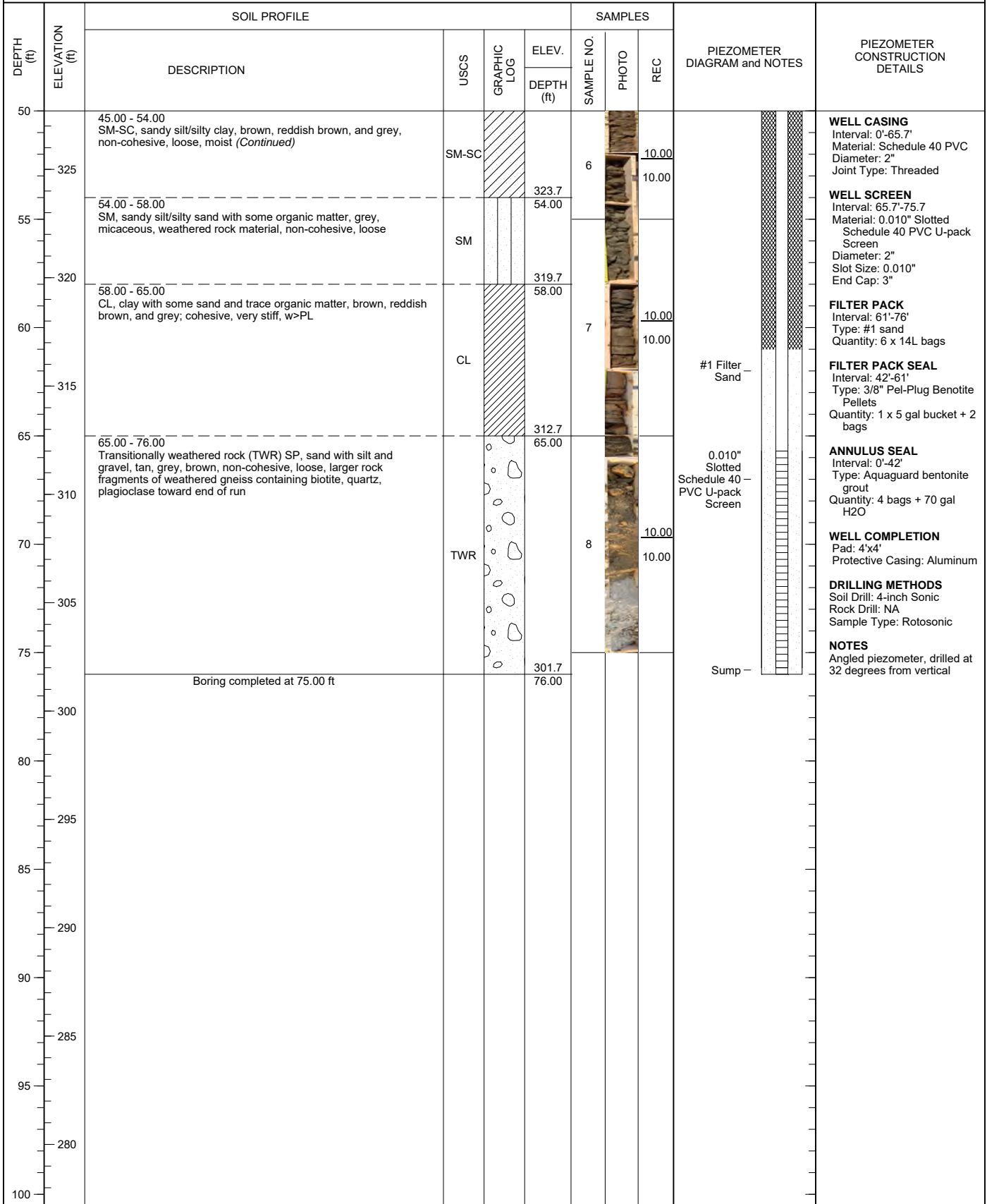
SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 75.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
 DATE STARTED: 3/29/21
 DATE COMPLETED: 3/30/21

NORTHING: 1,161,621.90
 EASTING: 2,562,429.70
 GS ELEVATION: 377.7
 TOC ELEVATION: 380.64 ft

DEPTH W.L.: 48.78
 ELEVATION W.L.: 331.86
 DATE W.L.: 4/8/21
 TIME W.L.: 13:45



BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 5/14/21



RECORD OF BOREHOLE PZ-621

SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 70.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
 DATE STARTED: 1/5/22
 DATE COMPLETED: 1/6/22

NORTHING: 1,161,478.9
 EASTING: 2,562,336.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.95 ft

DEPTH W.L.: 37.79
 ELEVATION W.L.: 343.16
 DATE W.L.: 1/6/22
 TIME W.L.: 15:58

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			PZ-621 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO		
0		0.00 - 6.50 MLS, sandy SILT, moist, brown-red, micaceous	MLS		371.6 6.50	1		3.50 6.50	<p>WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 60'-70' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 57.9'-70' Type: U-Pack GP-1 Sand Quantity: 4.5 x 14L bags</p> <p>FILTER PACK SEAL Interval: 55'-57.9' Type: 3/8" PEL-Plug Bentonite Pellets Quantity: 0.5 x 5 gal bucket</p> <p>ANNULUS SEAL Interval: 0'-55' Type: Aquaguard bentonite grout Quantity: 4 bags + 80 gal H2O</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic Sample Type: Rotasonic</p>
375									
5									
370		6.50 - 11.00 MLS, sandy SILT with trace organics, moist, brown-red, micaceous	MLS		367.1 11.00	2		10.00 10.00	
10									
365		11.00 - 17.50 SM, silty SAND, fine-medium grained, moist, reddish gray-brown, micaceous	SM		360.6 17.50				
15									
360		17.50 - 21.50 CL-SC, sandy CLAY and clayey SAND interbedded, fine-medium grained	CL-SC		356.6 21.50	3		7.00 10.00	
20									
355		21.50 - 26.50 SP, SAND, medium-fine grained, loose, dry, gray-brown	SP		351.6 26.50				
25									
350		26.50 - 30.00 SM, silty SAND with some fine gravel, wet, brown-gray	SM		348.1 30.00	4		5.50 10.00	
30									
345		30.00 - 36.50 CL-SC, sandy CLAY and clayey SAND interbedded with some poorly sorted gravels, W > PL	CL-SC		341.6 36.50	5		10.00 10.00	
35									
340		36.50 - 46.50 CL-ML, sandy silty CLAY, firm to soft, orange-red, micaceous	CL-ML		331.6 46.50	6		10.00 10.00	
40									
335									
45									
330		46.50 - 56.50 CL, sandy CLAY, red-orange to gray, moist, soft, micaceous, W>PL	CL						
50									

Log continued on next page

BOREHOLE RECORD PLANT BRANCH PZ-571-PZ-631-GPJ PIEDMONT.GDT 2/18/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
 CHECKED BY: Brian Steele, PG
 DATE: 2/11/22



RECORD OF BOREHOLE PZ-62I

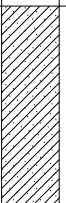

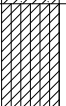





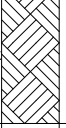

SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 70.00 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
 DATE STARTED: 1/5/22
 DATE COMPLETED: 1/6/22

NORTHING: 1,161,478.9
 EASTING: 2,562,336.0
 GS ELEVATION: 378.1
 TOC ELEVATION: 380.95 ft

DEPTH W.L.: 37.79
 ELEVATION W.L.: 343.16
 DATE W.L.: 1/6/22
 TIME W.L.: 15:58

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PZ-62I MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		46.50 - 56.50 CL, sandy CLAY, red-orange to gray, moist, soft, micaceous, W>PL <i>(Continued)</i>	CL		321.6	6		10.00 10.00	3/8" Pel-Plug Bentonite Pellets GP-1 Filter Sand 0.010" Slotted Schedule 40 PVC U-pack Screen Sump	WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 60'-70' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 57.9'-70' Type: U-Pack GP-1 Sand Quantity: 4.5 x 14L bags FILTER PACK SEAL Interval: 55'-57.9' Type: 3/8" PEL-Plug Bentonite Pellets Quantity: 0.5 x 5 gal bucket ANNULUS SEAL Interval: 0'-55' Type: Aquaguard bentonite grout Quantity: 4 bags + 80 gal H2O WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic Sample Type: Rotasonic
55		56.50 - 60.00 CL, silty CLAY with trace sand, gray, wet, very soft to soft, W>PL	CL		56.50					
60		60.00 - 65.00 Transitionally weathered rock (TWR), SAND with some gravel, brown-tan	TWR		318.1	7		10.00 9.00		
65		65.00 - 65.50 TWR, poorly sorted sandy GRAVEL	TWR		313.1					
65		65.50 - 70.00 (BEDROCK) Biotite Gneiss, slightly weathered to fresh, with biotite, plagioclase, and hornblende	Bedrock		65.50	8		3.50 4.50		
70		Boring completed at 70.00 ft			308.1					
75										
80										
85										
90										
95										
100										

BOREHOLE RECORD PLANT BRANCH PZ-57I-PZ-63I-GPJ, PIEDMONT.GDT 2/18/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
 CHECKED BY: Brian Steele, PG
 DATE: 2/11/22



RECORD OF BOREHOLE PZ-63I

SHEET 1 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 56.50 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
 DATE STARTED: 1/5/22
 DATE COMPLETED: 1/5/22

NORTHING: 1,161,371.2
 EASTING: 2,562,233.1
 GS ELEVATION: 378.6
 TOC ELEVATION: 381.31 ft

DEPTH W.L.: 36.64
 ELEVATION W.L.: 344.67
 DATE W.L.: 1/5/22
 TIME W.L.: 14:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			PZ-63I MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. (ft)	SAMPLE NO.	PHOTO			REC
0		0.00 - 13.50 SM, silty SAND with trace fine-coarse gravel, dry-moist, brown, micaceous	SM		365.1	1		6.50 6.50	Bentonite Grout 3/8" Pel-Plug Bentonite Pellets GP-1 Filter Sand 0.010" Slotted Schedule 40 PVC U-pack Screen	WELL CASING Interval: 0'-46.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 46.5'-56.5' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 43.8'-56.5' Type: U-Pack GP-1 Sand Quantity: 3.5 x 14L bags FILTER PACK SEAL Interval: 41.4'-43.8' Type: 3/8" PEL-Plug Bentonite Pellets Quantity: 0.5 x 5 gal bucket ANNULUS SEAL Interval: 0'-41.4' Type: Aquaguard bentonite grout Quantity: 2 bags + 40 gal H2O WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic Sample Type: Rotasonic
375										
5										
370										
10										
365		13.50 - 24.00 CL, sandy CLAY, red-brown, moist, W>PL, soft to firm, micaceous	CL		365.1	2		10.00 10.00		
15										
360										
20										
355		24.00 - 26.50 SC, clayey SAND, fine-medium grained, moist, loose to compact, red-brown, micaceous	SC		354.6	3		9.00 10.00		
25										
350		26.50 - 34.00 SM, silty SAND, fine-medium grained, moist, loose, gray-red-brown, micaceous, 6" red-brown sandy clay lens	SM		26.50	4		10.00 10.00		
30										
345		34.00 - 36.50 SM, silty SAND, fine-medium grained, gray, loose	SM		344.6	5		9.50 10.00		
35										
340		36.50 - 41.00 CL, red CLAY, moist to saturated, stiff, W>PL, micaceous	CL		342.1	6		10.00 10.00		
40										
335		41.00 - 44.00 SM, silty SAND, brown-tan-red, moist	SM		41.00	6		10.00 10.00		
45										
330		44.00 - 46.50 SM, silty SAND with poorly sorted gravel	SM		334.6	6		10.00 10.00		
49.00		46.50 - 49.00 CL, gravelly CLAY, moist-saturated, gray, very soft to soft			CL				332.1	6
50		49.00 - 49.50 TWR	TWR			329.6	6			
		Log continued on next page			TWR			49.50		6

BOREHOLE RECORD PLANT BRANCH PZ-57I-PZ-63I.GPJ PIEDMONT.GDT 2/18/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
 CHECKED BY: Brian Steele, PG
 DATE: 2/11/22



RECORD OF BOREHOLE PZ-63I



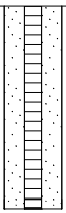
SHEET 2 of 2

PROJECT: SCS Plant Branch
 PROJECT NUMBER: 166625421
 DRILLED DEPTH: 56.50 ft
 LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
 DATE STARTED: 1/5/22
 DATE COMPLETED: 1/5/22

NORTHING: 1,161,371.2
 EASTING: 2,562,233.1
 GS ELEVATION: 378.6
 TOC ELEVATION: 381.31 ft

DEPTH W.L.: 36.64
 ELEVATION W.L.: 344.67
 DATE W.L.: 1/5/22
 TIME W.L.: 14:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PZ-63I MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		Transitionally weathered rock (TWR), sandy GRAVEL, very loose sand with poorly sorted gravel, weathered biotite gneiss 49.50 - 56.50 (BEDROCK) Biotite Gneiss, fresh to slightly weathered with decreasing weathering with depth, coarse-fine grained, strong (Continued)	Bedrock		322.1	6		10.00		WELL CASING Interval: 0'-46.5' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 46.5'-56.5' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 43.8'-56.5' Type: U-Pack GP-1 Sand Quantity: 3.5 x 14L bags FILTER PACK SEAL Interval: 41.4'-43.8' Type: 3/8" PEL-Plug Bentonite Pellets Quantity: 0.5 x 5 gal bucket ANNULUS SEAL Interval: 0'-41.4' Type: Aquaguard bentonite grout Quantity: 2 bags + 40 gal H2O WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic Sample Type: Rotasonic
325								10.00		
55		Boring completed at 56.50 ft								
320										
60										
315										
65										
310										
70										
305										
75										
300										
80										
295										
85										
290										
90										
285										
95										
280										
100										

BOREHOLE RECORD PLANT BRANCH PZ-57I-PZ-63I.GPJ, PIEDMONT.GDT 2/18/22

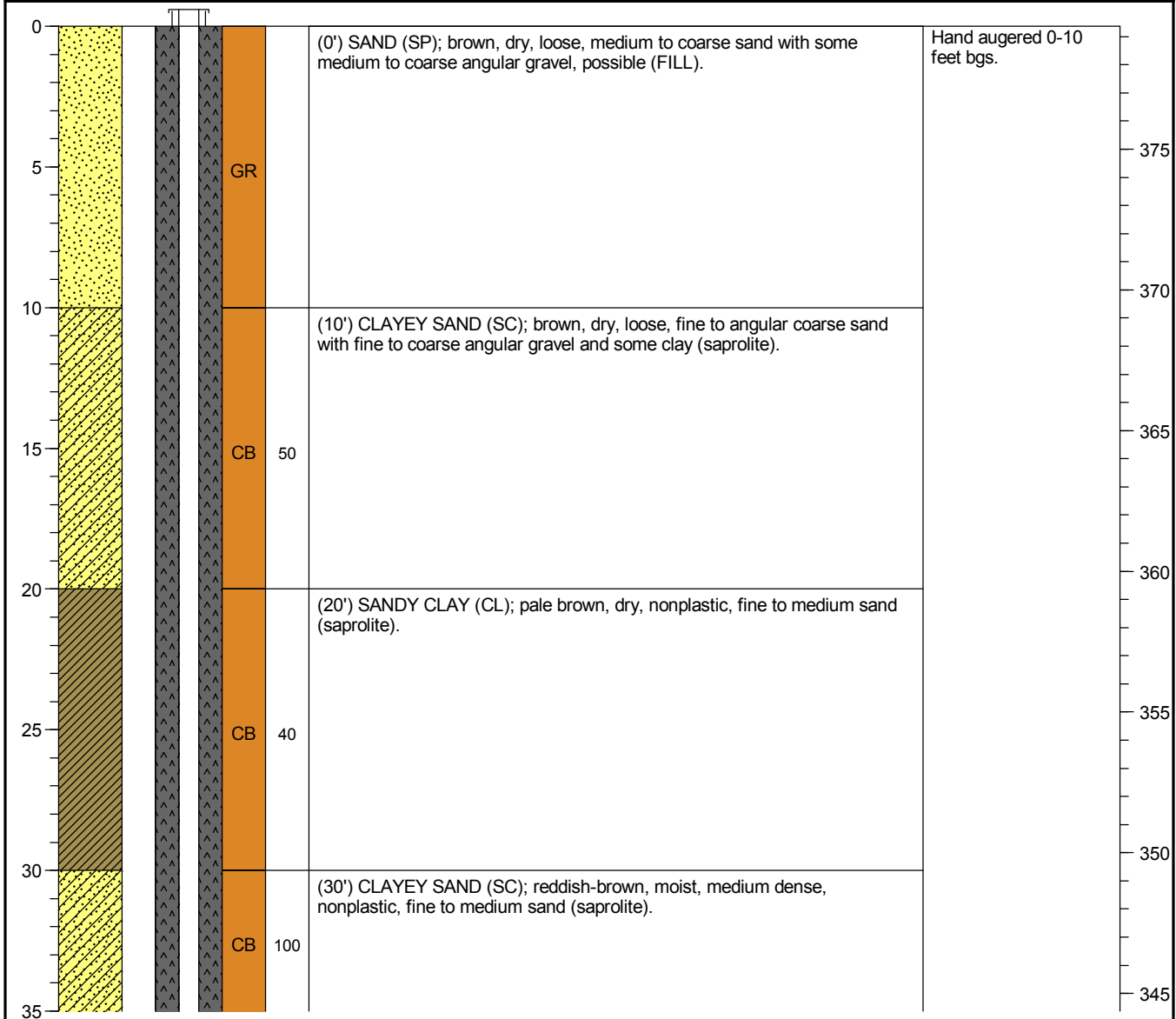
LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Environmental
 DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
 CHECKED BY: Brian Steele, PG
 DATE: 2/18/22



Drilling Start Date: 09/09/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 71.57
Drilling End Date: 09/10/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 379.37 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 381.94 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161787.72, 2562404.29	Filter Pack: 20/40 Sand

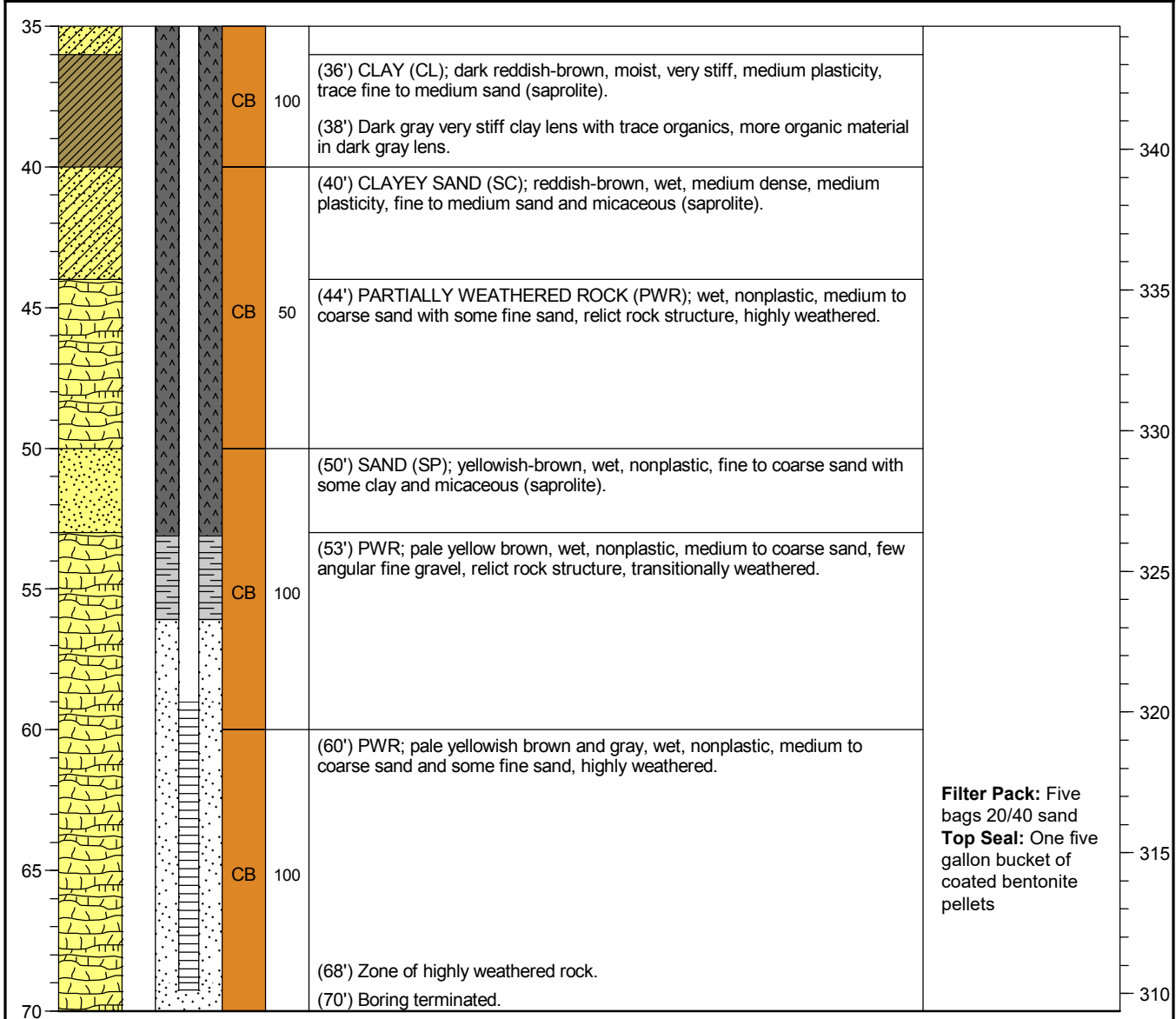
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.57 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/09/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 71.57
Drilling End Date: 09/10/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 379.37 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 381.94 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161787.72, 2562404.29	Filter Pack: 20/40 Sand

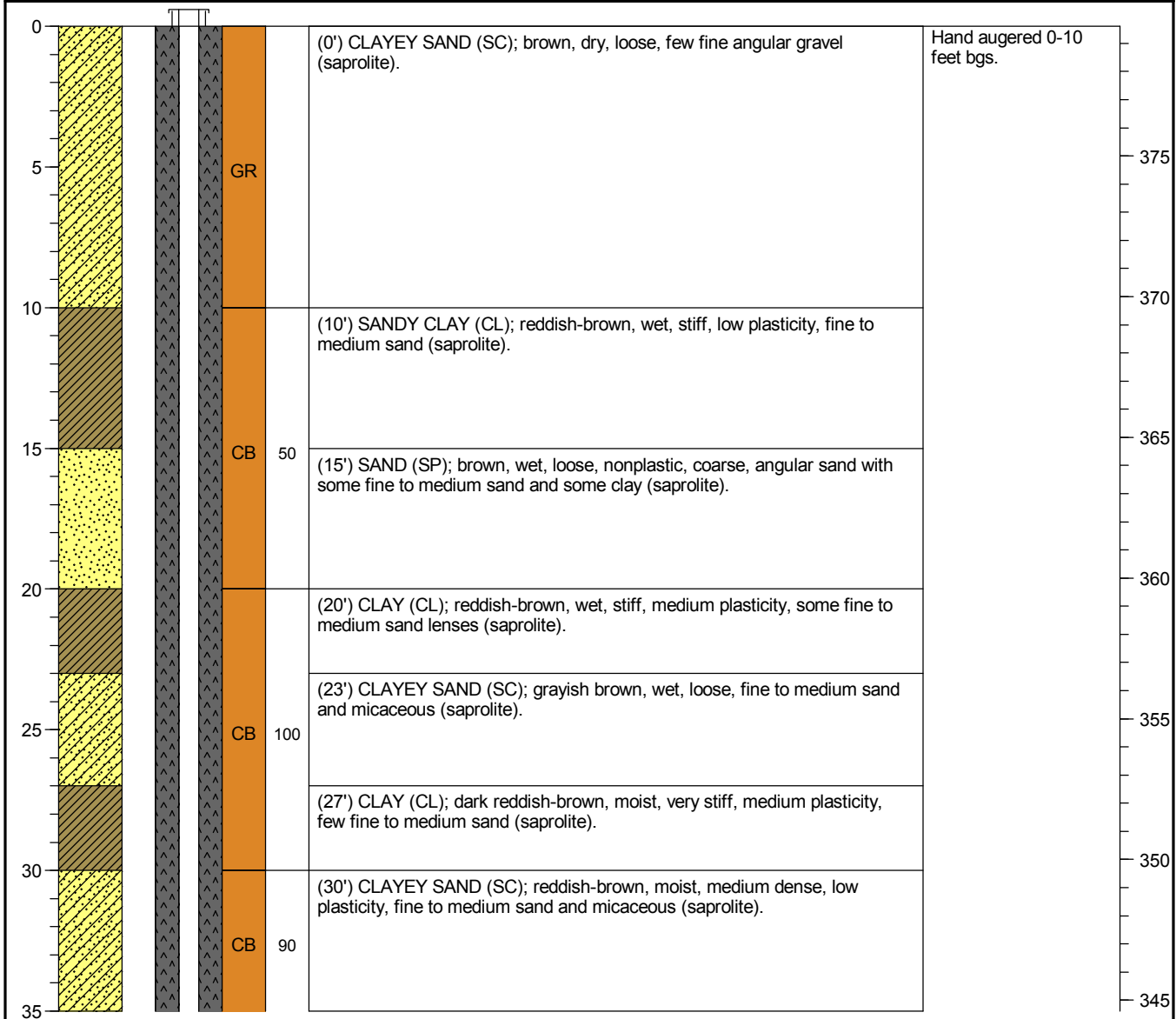
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.57 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/09/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 72.27
Drilling End Date: 09/09/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 379.61 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 382.06 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161692.72, 2562240.57	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.45 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

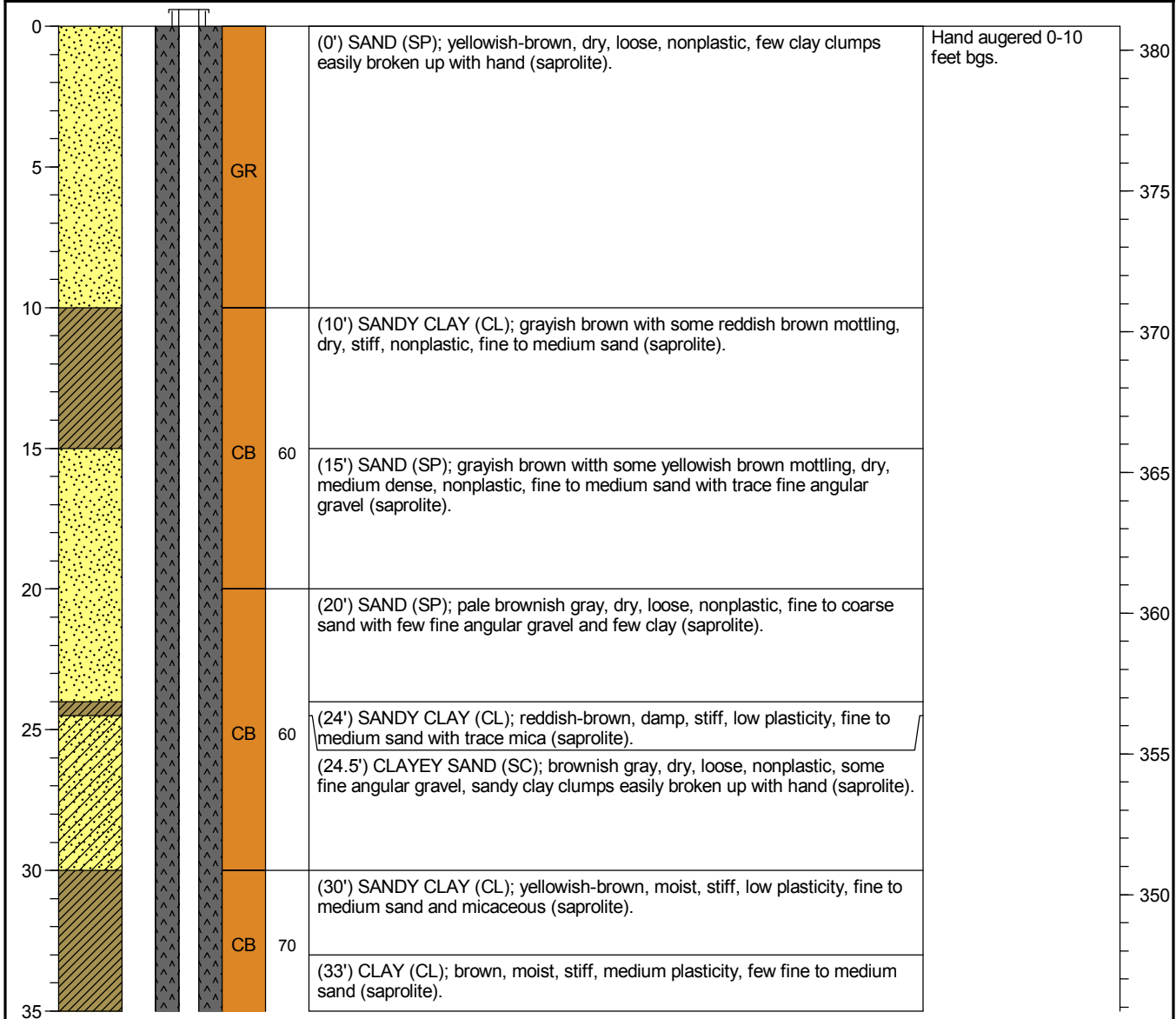
Drilling Start Date: 09/09/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 72.27
Drilling End Date: 09/09/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 379.61 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 382.06 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161692.72, 2562240.57	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35				CB	90	(35') CLAY (CL); gray, moist, stiff, low plasticity, some fine to medium sand and micaceous (saprolite).		340
40				CB	90	(36') CLAY (CL); reddish-brown, moist, very stiff, medium plasticity, few fine to medium sand (saprolite).		335
45				CB	90	(40') CLAYEY SAND (SC); reddish-brown with trace mottling, wet, loose, fine to medium sand and micaceous (saprolite).		330
50				CB	0	(48') SAND (SP); some mottling, wet, loose, fine to coarse sand and micaceous (saprolite).		325
55				CB	0	(50') No recovery.	Driller trips back down to collect sample interval and reports very soft drilling from 50-60 feet bgs	320
60				CB	100	(60') PARTIALLY WEATHERED ROCK (PWR); wet, medium dense, coarse sand and micaceous with trace relict rock structure.	Filter Pack: Five bags 20/40 sand Top Seal: One five gallon bucket of coated bentonite pellets	315
65				CB	100	(62') PWR; wet, medium dense, medium angular sand with relict rock structure.		310
70				CB	100	(66') PWR; wet, loose, fine to coarse sand, few clay, relict rock structure, highly weathered. (70') Boring terminated.		305

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.45 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/08/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 70.87
Drilling End Date: 09/08/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 380.86 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 383.52 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161747.91, 2562134.65	Filter Pack: 20/40 Sand

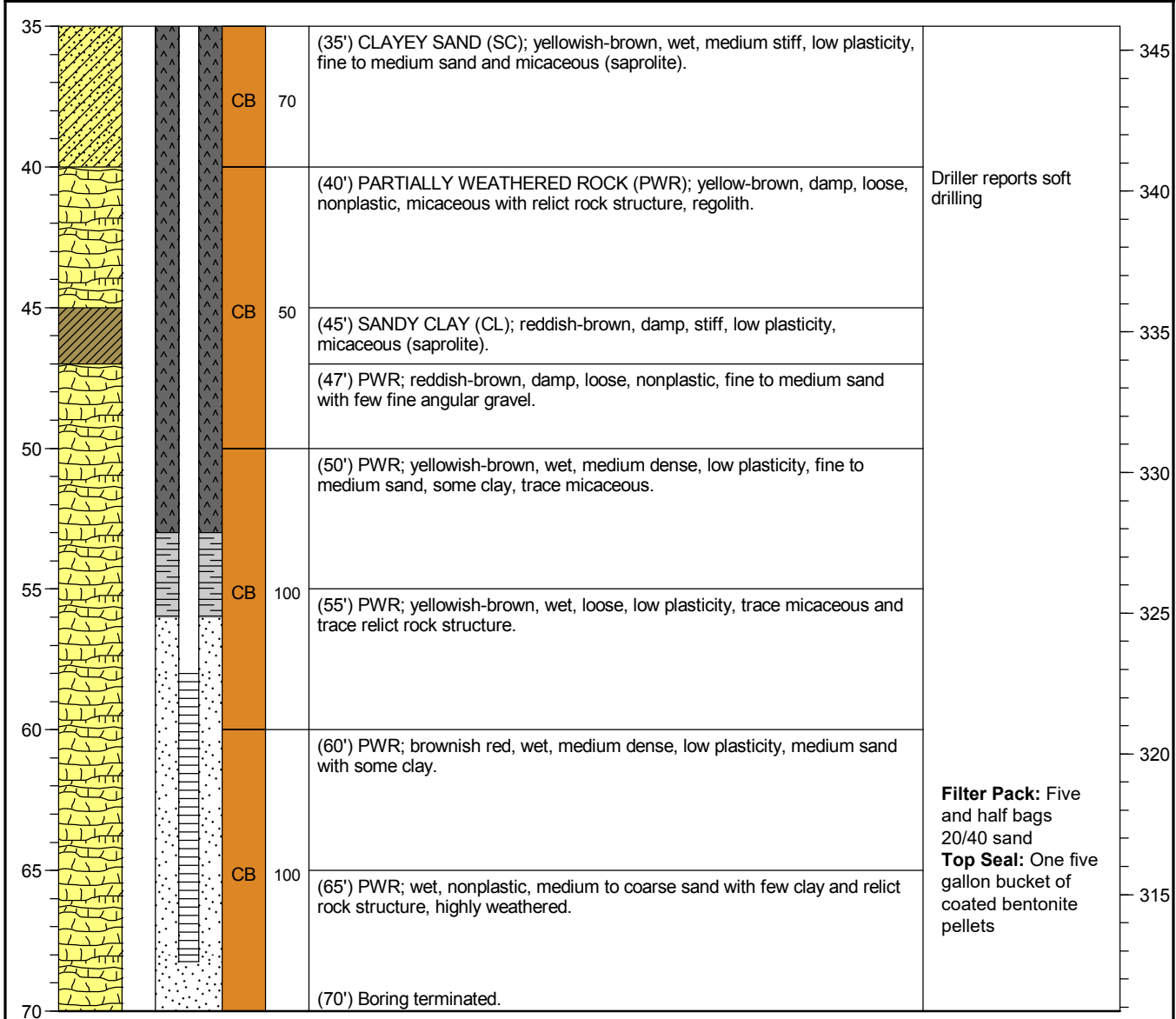
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/08/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 70.87
Drilling End Date: 09/08/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 380.86 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 383.52 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161747.91, 2562134.65	Filter Pack: 20/40 Sand

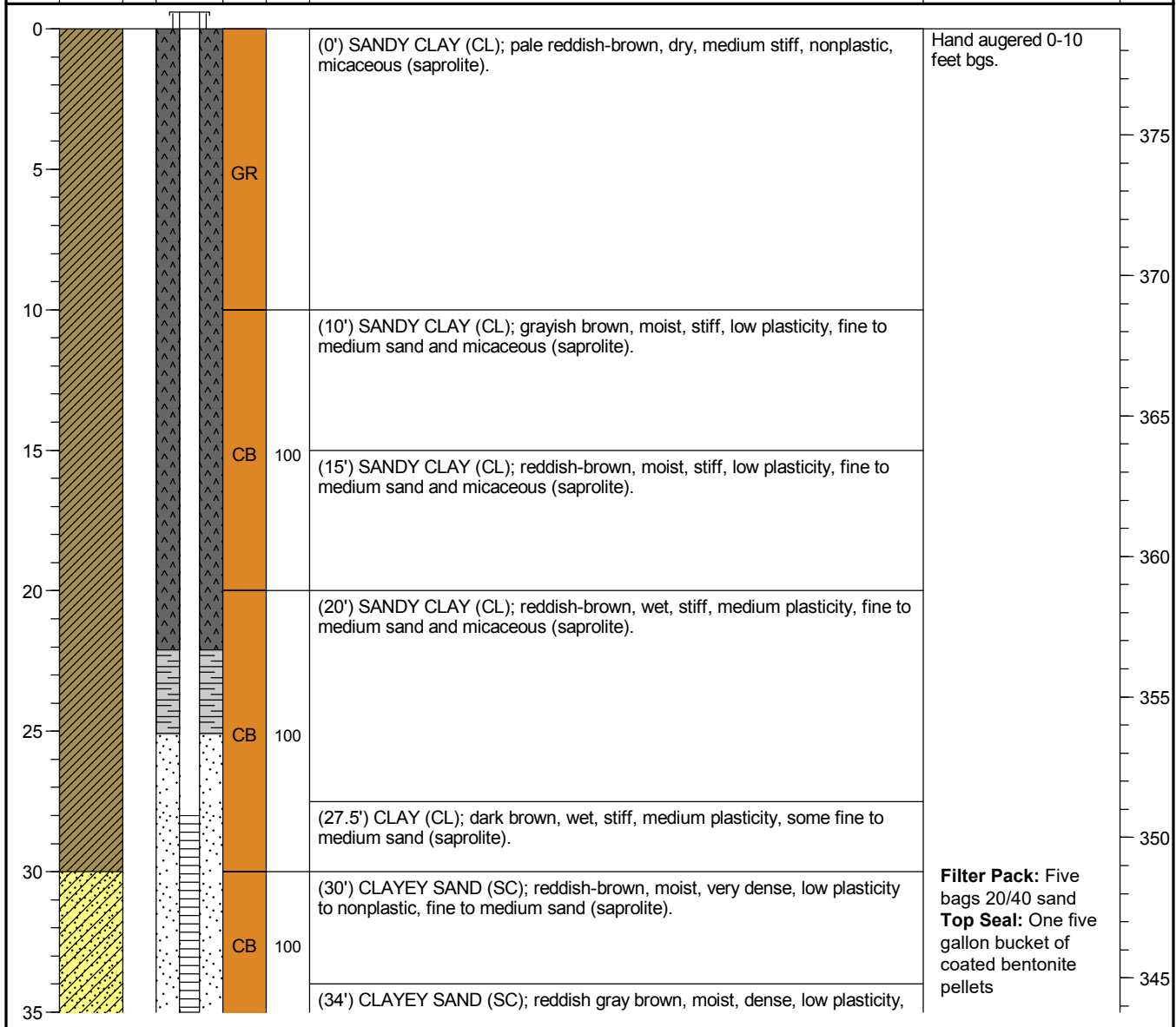
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/07/2022	Boring Depth (ft): 55	Well Depth (ft TOC): 41.24
Drilling End Date: 09/07/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 378.78 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 381.48 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161831.98, 2561919.76	Filter Pack: 20/40 Sand

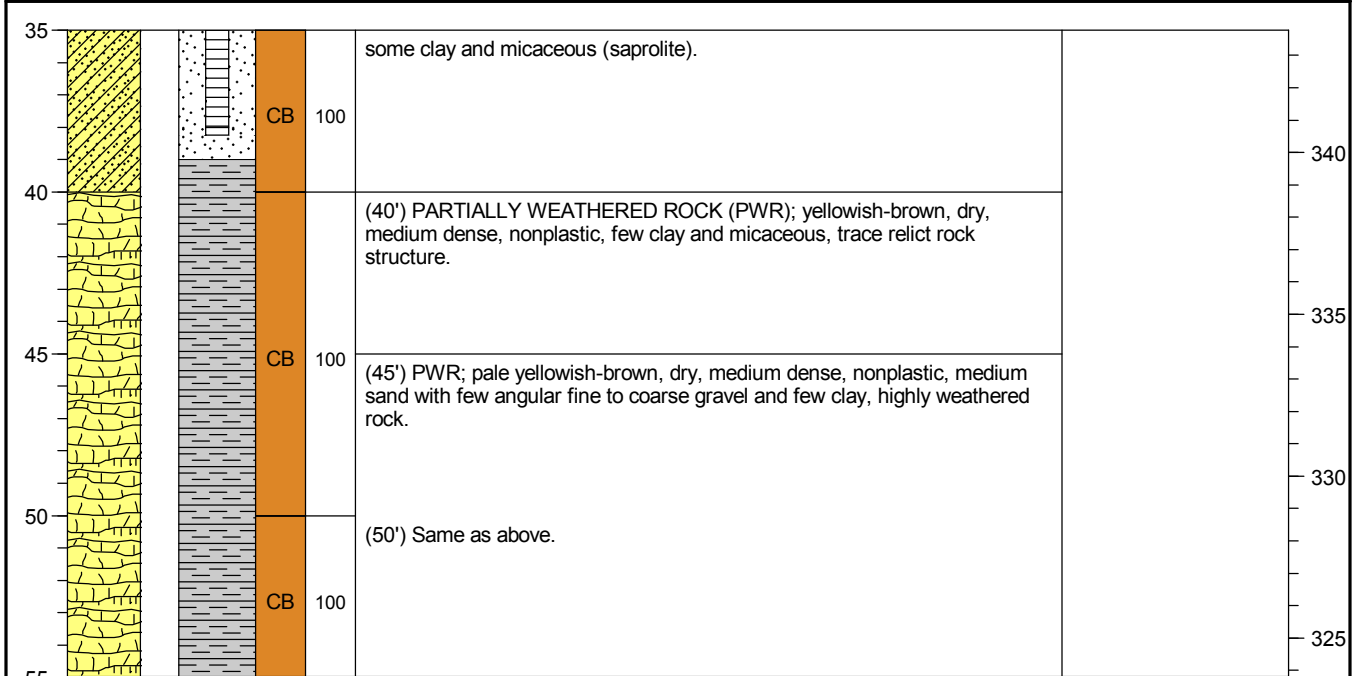
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.7 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 09/07/2022	Boring Depth (ft): 55	Well Depth (ft TOC): 41.24
Drilling End Date: 09/07/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 378.78 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 381.48 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1161831.98, 2561919.76	Filter Pack: 20/40 Sand

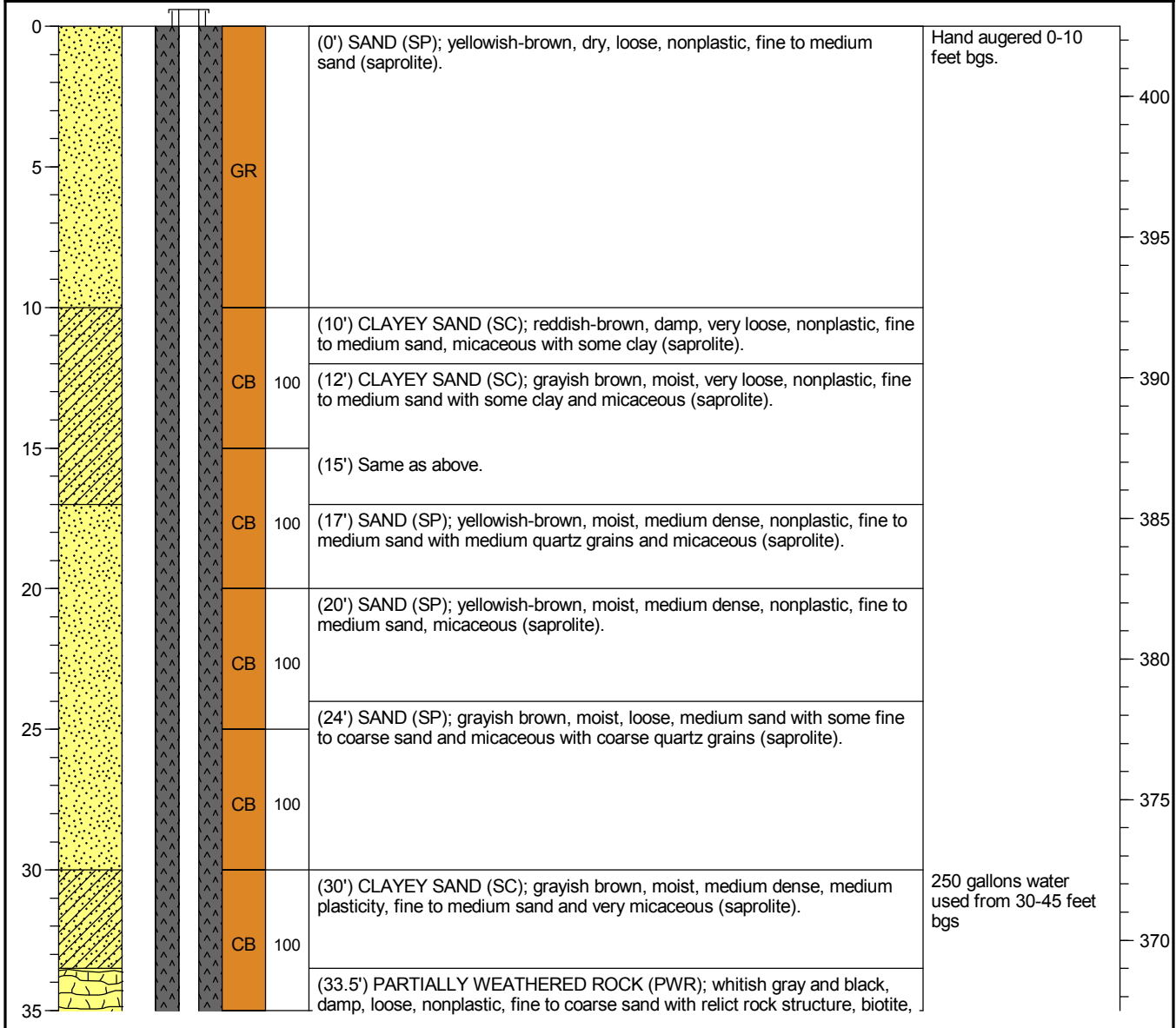
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.7 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 08/31/2022	Boring Depth (ft): 100	Well Depth (ft TOC): 86.93
Drilling End Date: 09/06/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 402.50 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 405.25 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160690.48, 2558512.9	Filter Pack: 20/40 Sand


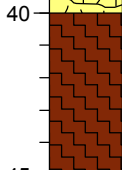
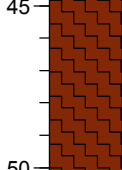
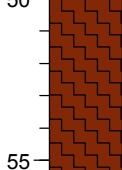
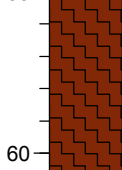
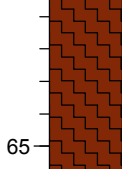
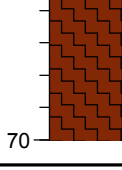
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 08/31/2022	Boring Depth (ft): 100	Well Depth (ft TOC): 86.93
Drilling End Date: 09/06/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 402.50 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 405.25 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160690.48, 2558512.9	Filter Pack: 20/40 Sand

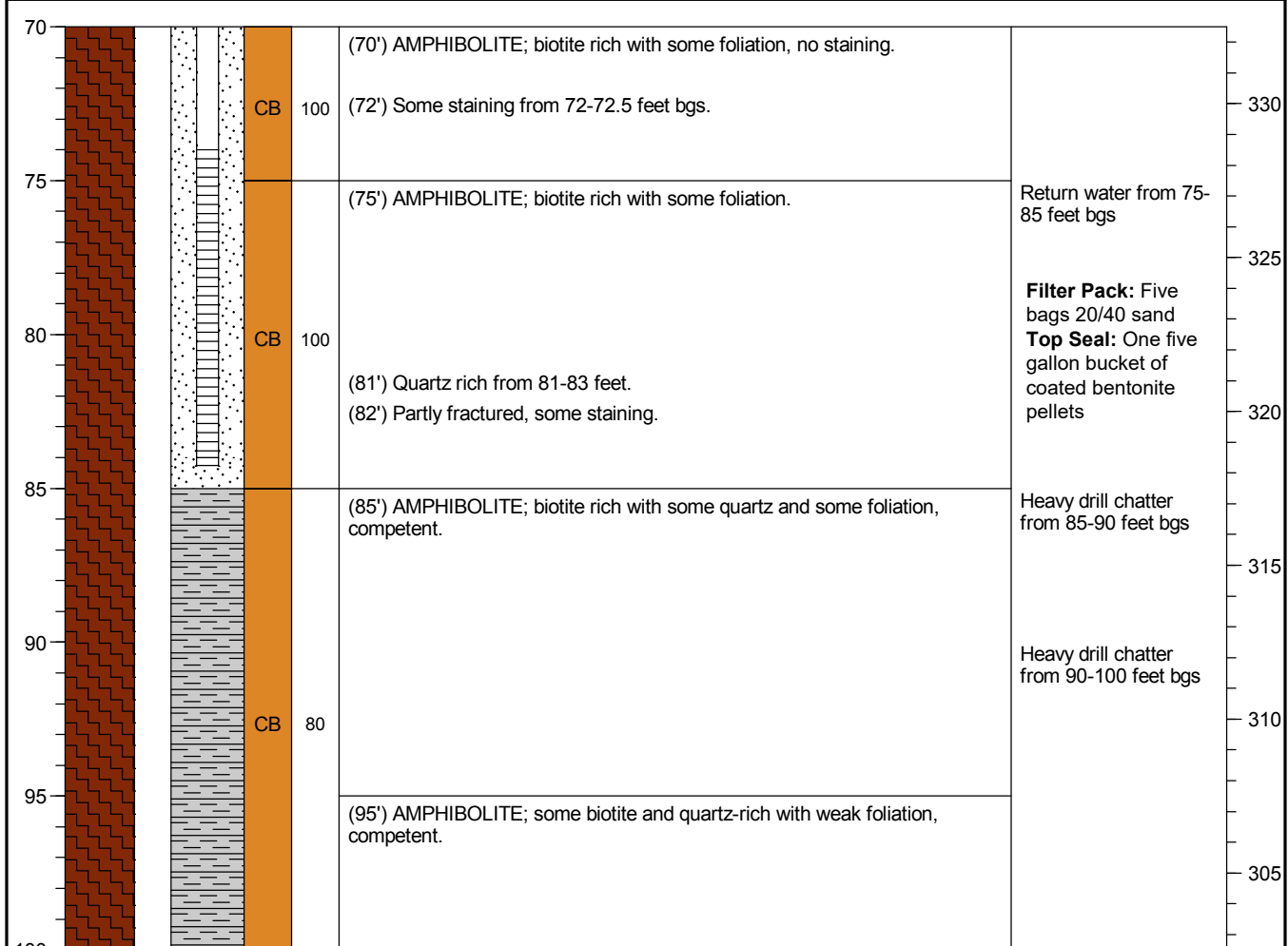
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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35				CB	100	medium quartz grains. (35') PWR; whitish gray, damp, hard, fine to coarse sand with few angular gravel, micaceous, relict rock structure (gneiss/amphibolite), weathered rock.		365
40				CB	100	(40') AMPHIBOLITE; weak, biotite rich with coarse quartz grains, competent, unweathered.	Drill chatter increases; drilling slows	360
45				CB	50	(45') AMPHIBOLITE; weak, biotite rich with coarse quartz grains, competent rock and weathered from 46-47 feet bgs.		355
50				CB	100	(50') AMPHIBOLITE; biotite rich with coarse quartz foliations present in rock, competent, no staining.	Driller has return water; approximately 50 gallons used for 45-50 foot run	350
55				CB	100	(55') Same as above.		345
60				CB	100	(60') AMPHIBOLITE; biotite rich with coarse quartz grains, foliated layering, competent highly weathered/stained zone from 63-63.5 feet bgs.	Return water Heavy rig chatter from 61-65 feet bgs	340
65				CB	100	(65') AMPHIBOLITE; biotite rich with coarse quartz grains and foliated, competent, no staining.		335
70								

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 08/31/2022	Boring Depth (ft): 100	Well Depth (ft TOC): 86.93
Drilling End Date: 09/06/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 402.50 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 405.25 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160690.48, 2558512.9	Filter Pack: 20/40 Sand

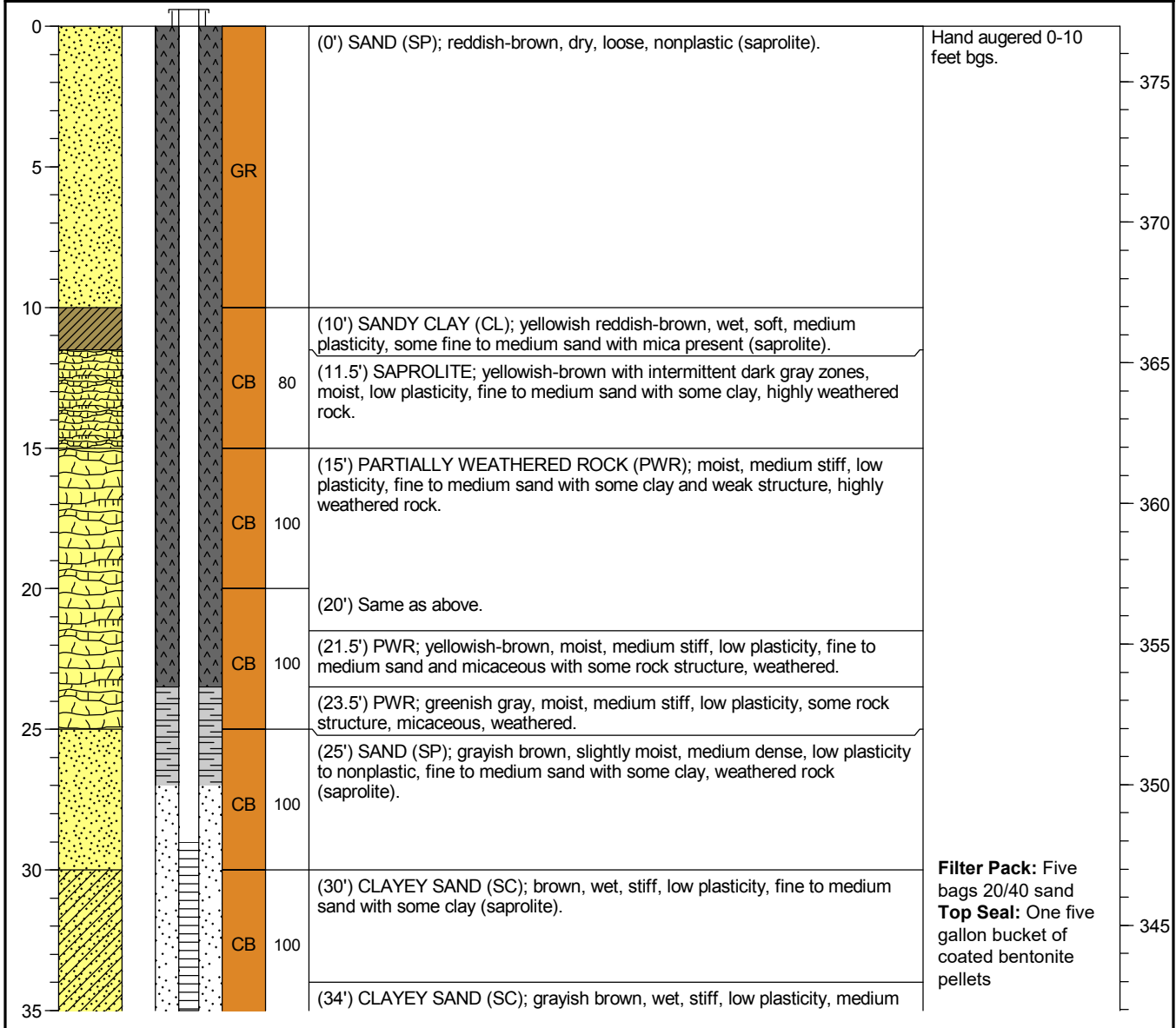
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 08/31/2022	Boring Depth (ft): 40	Well Depth (ft TOC): 41.59
Drilling End Date: 08/31/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 376.97 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 379.36 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160311.39, 2558447.46	Filter Pack: 20/40 Sand


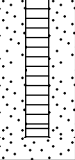

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.39 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 08/31/2022	Boring Depth (ft): 40	Well Depth (ft TOC): 41.59
Drilling End Date: 08/31/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): --	Riser Material: Sch 40 PVC
Drilling Equipment: C-200	Ground Surface Elevation: 376.97 NAV88	Screen Material: Sch 40 PVC Pre-Pack
Driller: V. Scott	Top of Casing Elevation: 379.36 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160311.39, 2558447.46	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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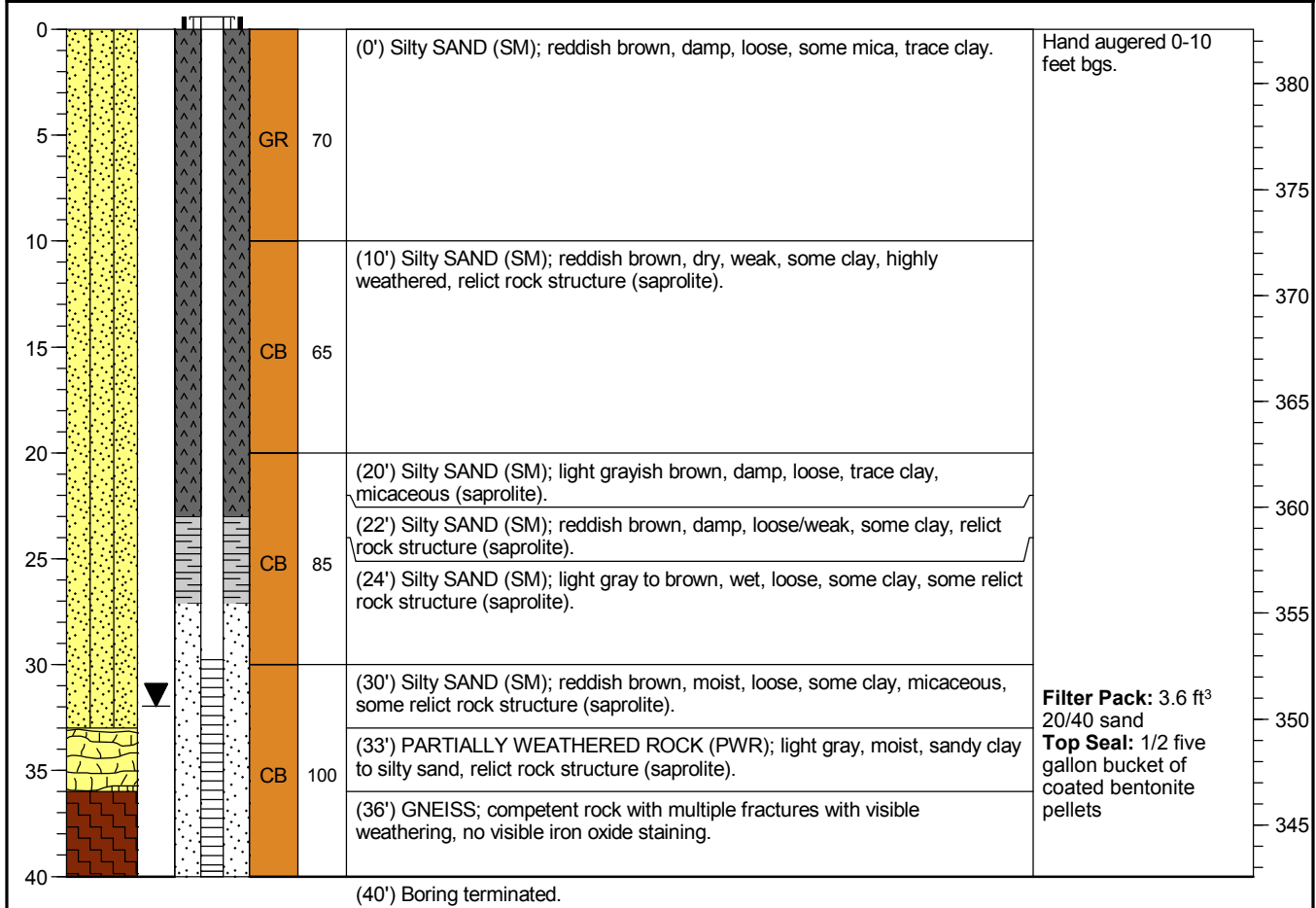
35				CB	100	to coarse sand with some clay (saprolite).		340
				CB	100	(37') AMPHIBOLITE; gray, wet.		
				CB	100	(38') AMPHIBOLITE; competent with few fractures.	Heavy drill chatter from 38-40 feet bgs	

(40') Boring terminated.

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.39 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Drilling Start Date: 05/02/2023	Boring Depth (ft): 40	Well Depth (ft BGS): 40
Drilling End Date: 05/02/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 31.81	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150	Ground Surface Elevation: 382.57 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: C. Tindel	Top of Casing Elevation: 385.34 NAV88	Seal Material(s): Grout, Bentonite
Logged By: D. Kegley	North, East (Y,X): 1160295.35, 2558230.83	Filter Pack: 20/40 Sand

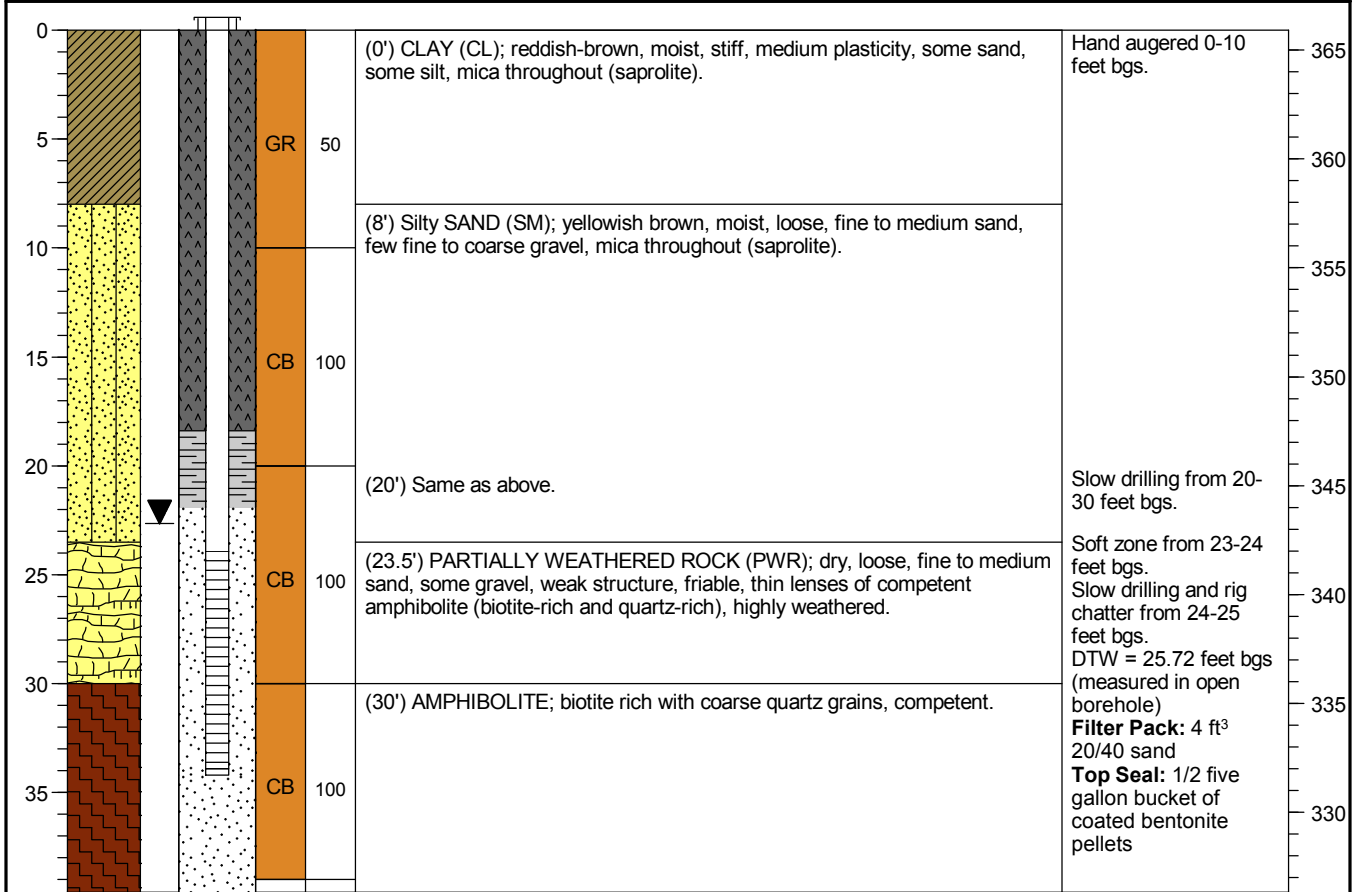
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.77 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from ground surface (BGS).

Drilling Start Date: 05/09/2023	Boring Depth (ft): 39.6	Well Depth (ft BGS): 34.2
Drilling End Date: 05/09/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 22.73	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150 CC	Ground Surface Elevation: 365.91 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: C. Franklin	Top of Casing Elevation: 368.57 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain/T. Kessler	North, East (Y,X): 1160133.29, 2558394.65	Filter Pack: 20/40 Sand

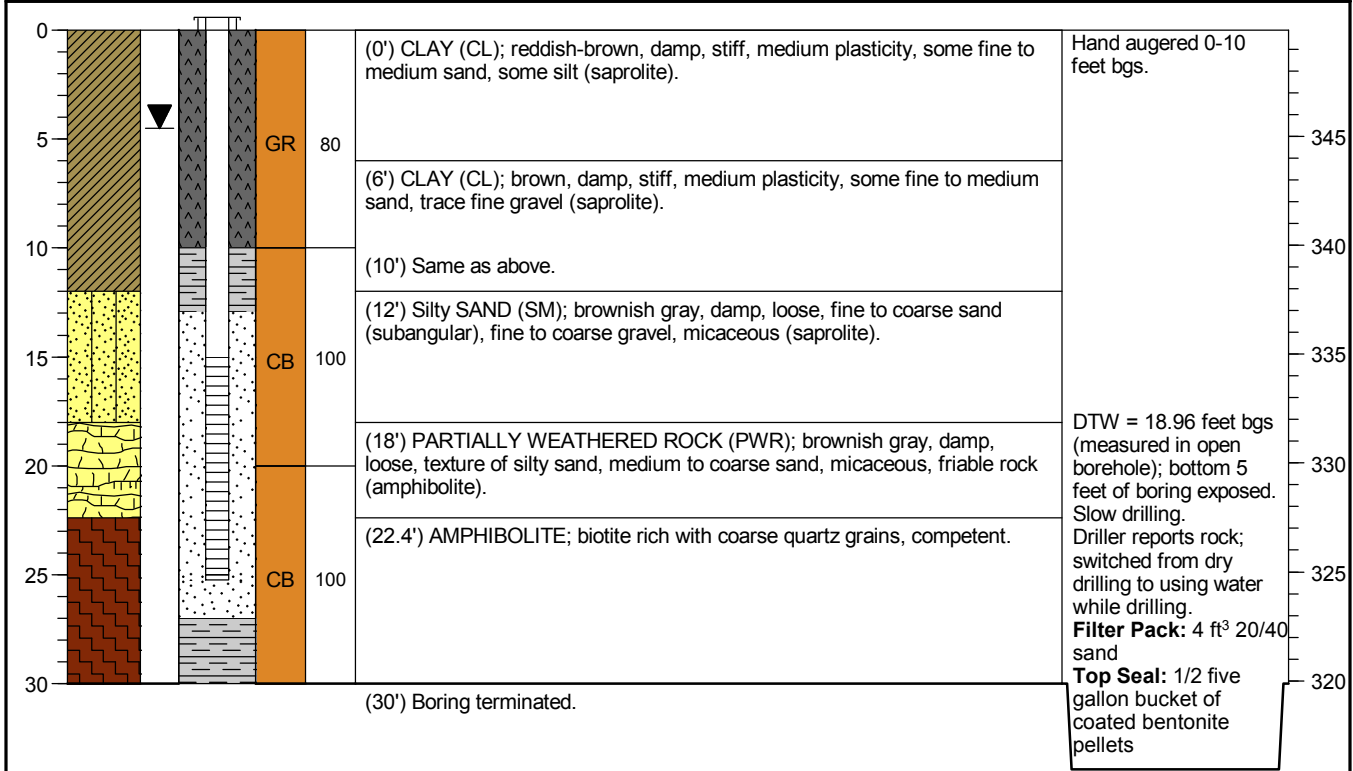
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

Drilling Start Date: 05/10/2023	Boring Depth (ft): 30	Well Depth (ft BGS): 25.25
Drilling End Date: 05/10/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 4.65	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150 CC	Ground Surface Elevation: 349.87 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: C. Franklin	Top of Casing Elevation: 352.63 NAV88	Seal Material(s): Grout, Bentonite
Logged By: C. Cain	North, East (Y,X): 1160226.37, 2558559.3	Filter Pack: 20/40 Sand

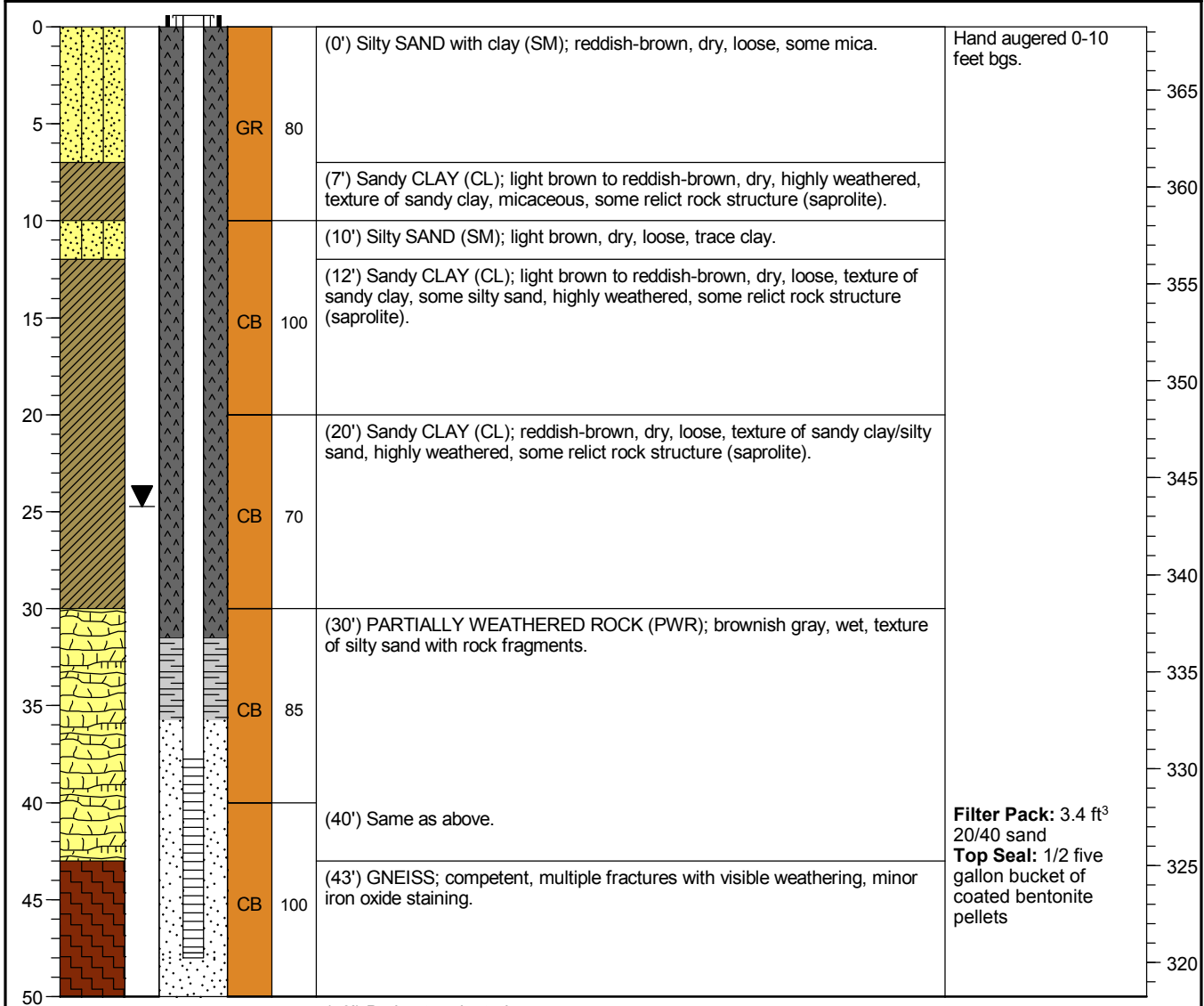
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.76 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

Drilling Start Date: 05/24/2023	Boring Depth (ft): 50	Well Depth (ft BGS): 48
Drilling End Date: 05/24/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 25.08	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150 CC	Ground Surface Elevation: 368.25 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: B. Griffis	Top of Casing Elevation: 371.13 NAV88	Seal Material(s): Grout, Bentonite
Logged By: D. Kegley	North, East (Y,X): 1160189.3, 2557970.94	Filter Pack: 20/40 Sand

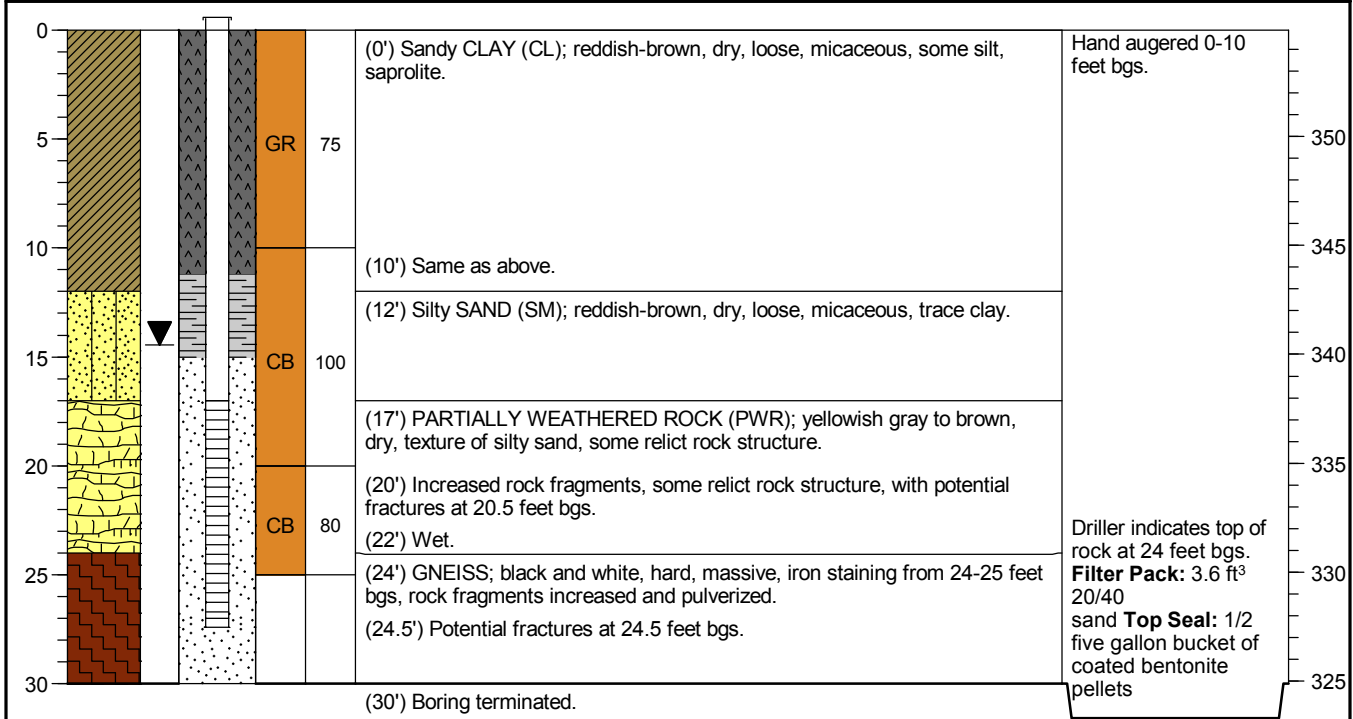
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.88 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

Drilling Start Date: 06/26/2023	Boring Depth (ft): 30	Well Depth (ft BGS): 27.4
Drilling End Date: 06/27/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW Post-Installation (ft): 14.67	Riser Material: Sch 40 PVC
Drilling Equipment: TSI-150 CC	Ground Surface Elevation: 354.88 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: B. Griffis	Top of Casing Elevation: 357.86 NAV88	Seal Material(s): Grout, Bentonite
Logged By: D. Kegley	North, East (Y,X): 1160009.37, 2558343.03	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.98 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

APPENDIX B

GA EPD HSRA Response



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Land Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334
404-657-8600

November 16, 2018

Georgia Power Company
c/o Mr. Robert Mitchell, III
241 Ralph McGill Boulevard, NE
BIN #10021
Atlanta, Georgia 30308

RE: Release Notification
Georgia Power Plant Branch
1100 Milledgeville Road
Milledgeville, Putnam County
Tax Parcel 086-002

Dear Mr. Mitchell:

Pursuant to the Rules for Hazardous Site Response, specifically Rule 391-3-19-.05(1) "Listing on the Hazardous Site Inventory", the Environmental Protection Division (EPD) has evaluated the above referenced property to determine whether a release exceeding a reportable quantity has occurred.

Based upon the information available to EPD at the time this evaluation was done, including the release notification that was submitted on March 20, 2018, EPD has no reason to believe that a release exceeding a reportable quantity has occurred at this property. The property was evaluated as being inaccessible, non-residential use, with the nearest downgradient drinking water well greater than 3 miles distant. Enclosed is a copy of our inspection report, recommendation memorandum, and Reportable Quantities Screening Method (RQSM) score sheet that summarize the conditions used to evaluate this property. Based on this information, this property will not be listed on the Hazardous Site Inventory.

As provided for in Section 391-3-19-.04(4) of the Rules, the owner of the property must notify EPD if they become aware of any information not provided in the notification that should have been provided, or if they become aware of any information or events that suggest changes may have occurred in any of the conditions referenced in the attached documents. Please provide a copy of this letter and the attached documents to any person to which title or an interest in this property is transferred.

Please direct questions regarding this matter to Bill Williams of the Response and Remediation Program at 404-232-1502.

Sincerely,

David Brownlee
Unit Coordinator
Response and Remediation Program

C: Brian Steele, Resolute (by e-mail only)
Encl.: Trip Report, RQSM Score Sheet, Recommendation Memorandum
File: Non-HSI [Georgia Power-Plant Branch, Putnam County]



ENVIRONMENTAL PROTECTION DIVISION

November 15, 2018

MEMORANDUM

TO: David Brownlee
FROM: Bill Williams
SUBJECT: Non-HSI Recommendation
Georgia Power - Plant Branch
1100 Milledgeville Road
Milledgeville, Putnam County

Background

The Response and Remediation Program received a Release Notification/Reporting Form for the subject property on March 20, 2018. The subject property is a former coal-fired steam generating power plant that was retired is currently undergoing a complete decommissioning. An electrical substation will be the only remaining operation at this property. The notification indicated a release to groundwater of arsenic and cadmium above the Maximum Contaminant Level (MCL). One groundwater sample (MW-C2-02) also found lead at 35.3 µg/L, which is greater than the MCL; However, the consultant attributed the lead contamination to a petroleum release. Soil samples collected in the area of a former skeet range found benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and arsenic at levels exceeding the Appendix I Notification Concentrations (NCs). This release is considered to be a separate release from the one that originally resulted in the property being listed as Site #10051 on the Hazardous Site Inventory (HSI).

A site visit was performed to verify current conditions and perform a limited target survey. See the attached Trip Report (11-15-2018) for details. The site visit found the property is completely fenced and staffed with onsite 24-hour guard service. The nearest residents were found at the North River condominiums, which are approximately 1200 feet from the area of the former power plant and more than 6000 feet from the area of the skeet range. The area of soil contamination is within the secured fenced area. The area of groundwater contamination is on the shore of Lake Sinclair and the flow gradient is directly into the lake. There are no down gradient drinking water wells due to the immediate groundwater intercept provided by Lake Sinclair.

Groundwater Pathway

The subject property was scored for a known release of arsenic to groundwater at concentrations above the MCL. No human exposure is suspected. The quantity of the release is unknown and there were no drinking water wells identified within 3-miles downgradient of the subject property. The groundwater pathway score of 8.1 does not exceed the threshold value of 10.0.

On-Site Exposure

The subject property was scored for a known release of arsenic to the soils. A cover value of 5 was assigned. The site is inaccessible due to the security fencing and guard service. The nearest resident individual is located between 1001 and 3000 feet from the subject property. The on-site pathway score of 0.0 does not exceed the threshold value of 20.0

Recommendation:

The groundwater pathway score is 8.1, and the on-site exposure pathway score is 0.0; Therefore, I recommend the subject property not be listed on the HSI.

Attachments: Trip Report; RQSM Score Sheets; Release Package

File: Non-HSI [Georgia Power - Plant Branch, Putnam County]

**LAND PROTECTION BRANCH
 RESPONSE AND REMEDIATION PROGRAM
 REPORTABLE QUANTITIES SCREENING METHOD**

SCORED BY:	Bill Williams	DATE:	11/15/2018
GROUNDWATER PATHWAY SCORE:	8.1	CLEANUP HISTORY:	
ON-SITE PATHWAY SCORE:	0.0	<input type="checkbox"/> NO CLEANUP INITIATED AT SITE <input checked="" type="checkbox"/> SOME CLEANUP UNDERWAY AT SITE <input type="checkbox"/> CLEANUP HAS BEEN COMPLETED	

EPA ID NUMBER:	GAD00061289		
SITE OR FACILITY NAME:	Georgia Power-Plant Branch		
SITE STREET ADDRESS:	1100 Milledgeville Road		
SITE CITY:	Milledgeville	SITE COUNTY:	Putnam
		ZIP CODE:	31061

IF SITE SCORES ABOVE THE THRESHOLD VALUE FOR EITHER PATHWAY, PROVIDE THE FOLLOWING INFORMATION. ALL REGULATED SUBSTANCES DETECTED AT THE SITE SHOULD ALSO BE LISTED ON PAGE 2, EXCLUDING THOSE USED TO SCORE THE SITE.

PROPERTY OWNER:	Georgia Power Company		
MAILING ADDRESS:	241 Ralph McGill Blvd. NE, BIN#10221		
CITY:	Atlanta	STATE:	GA
		ZIP CODE:	30308
TELEPHONE NUMBER:	404-506-6235		
SITE CONTACT PERSON:	Robert W. Mitchell, III (Brett)	TITLE:	Environmental Affairs Mgr.
COMPANY NAME:	Georgia Power Company		
MAILING ADDRESS:	241 Ralph McGill Blvd. NE, BIN#10221		
CITY:	Atlanta	STATE:	GA
		ZIP CODE:	30308
TELEPHONE NUMBER:	404-506-7757		
SITE OWNER/OPERATOR:			
COMPANY NAME:			
MAILING ADDRESS:			
CITY:		STATE:	
		ZIP CODE:	
TELEPHONE NUMBER:			

GROUNDWATER PATHWAY

HAS A RELEASE TO GROUNDWATER OCCURRED? Known (45) Suspected (10) Potential Future (5) (If 45, go to D)		SCORE	
		A.	45
SUSCEPTIBILITY RATING: Higher (6) Average (3) Lower (0)		1B.	
PHYSICAL STATE: Stable Solid (0) Unstable Solid (1) Powder/Ash (2) Liquid/Gas/Sludge (3)		2B.	
CONTAINMENT: Very Good (0) Good (1) Fair (2) Poor (3)		C.	
REGULATED SUBSTANCE: Arsenic		1D.	
TOXICITY: None (1) Low (1) (2) (4) (8) (16)		2D.	16
QUANTITY: (1) (2) (3) (4) (5) (6) (7) (8)		3D.	4
EXPOSURE TO GROUNDWATER RELEASE: (choose only one)		1E.	4
Known release ≥ MCL and know human exposure ≥ MCL (25) Known release ≥ MCL and suspected human exposure (20) Known release, no MCL exists, and know human exposure (18) Known release ≥ MCL, and known human exposure < MCL (15) Known release, no MCL exists, and human exposure is suspected (12) Suspected release and human exposure is suspected (8) Known release ≥ MCL, but no human exposure is suspected (4) Known release, no MCL exists, and no human exposure is suspected (3) Suspected release, but no human exposure is suspected (2) Potential future release (1) Known release less than MCL (0)			
DISTANCE TO WELL OR SPRING: <1/2 mile (16) 1/2 - 1 mile (9) 1 - 2 miles (4) 2 - 3 miles (1) > 3 miles (0)		2E.	0
GROUNDWATER PATHWAY SCORE:		8.1	

$$S_{gw} = M \times (2D + 3D) \times (1E + 2E) / 442.8$$

$$\text{where } M = A + [(1B + 2B) \times C]$$

$$\text{If } A = 45, \text{ then } M = 45$$

$$\text{If } 2D \text{ is unknown, then } 2D = 4$$

$$\text{If } 3D \text{ is unknown, then } 3D = 4$$

$$\text{If } 1E \text{ includes known or suspected human exposure, then } 1E + 2E = 16$$

$$\text{If } 1E = 0, \text{ then } 2E = 1$$

Note: The denominator of 442.8 normalizes the groundwater score to a value between 0 and 100.

ON-SITE EXPOSURE PATHWAY

ACCESS TO THE SITE:					
Inaccessible (0)	Limited Access (2)	Unlimited Access (4)		A.	0
HAS THERE BEEN A RELEASE?					
Yes (25)	Suspected (15)	No (0)		B.	25
CONTAINMENT:					
Soil Releases (very good to poor)	(0) (1) (2) (3) (4) (5)			C.	5
Aboveground Releases:	(0) (1) (2) (3)				
REGULATED SUBSTANCE:	Arsenic			1D.	
TOXICITY:					
None (1)	Low (1) (2) (4) (8) (16)			2D.	16
QUANTITY:					
(1) (2) (3) (4) (5) (6) (7) (8)				3D.	4
DISTANCE TO NEAREST RESIDENT INDIVIDUAL:					
<300' (8)	301-1000' (6)	1001-3000' (4)	3001-5280' (2)	> 1 Mile (1)	1E.
IS THERE AN ON-SITE SENSITIVE ENVIRONMENT?					
		Yes (1)	No (2)	2E.	0
ON-SITE EXPOSURE PATHWAY SCORE:					0.0

$$So = A \times (B + C) \times (2D + 3D) \times (1E + 2E) / 259.2$$

If A or B = 0, then So = 0

If 2D is unknown, then 2D = 4

If 3D is unknown, then 3D = 4

Note: The denominator of 259.2 normalizes the score to a value between 0 and 100

Calculated and Printed: 11/15/18 4:00 PM

S:\RDRIVE\B\WILLIAMS\NONHS\Canton Textile Mills\fr



TRIP REPORT

November 15, 2018

SITE NAME AND LOCATION: Georgia Power Company-Plant Branch
1100 Milledgeville Road
Milledgeville

COUNTY: Putnam

TRIP BY: Bill Williams, 
Environmental Engineer, RRP

DATE OF INVESTIGATION: November 14, 2018

OFFICIALS CONTACTED: Brad Filipovich - Georgia Power
Regina Linch - Georgia Power
Brian Steele – Resolute Environmental

COMMENTS:

I. Background

The Response and Remediation Program received a Release Notification report for the above referenced property on March 20, 2018. The notification indicated a release to soils of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and arsenic at levels exceeding the Appendix I Notification Concentrations (NCs). The notification also indicated a release to groundwater of arsenic and cadmium above NCs. Lead was also detected above NC in groundwater, but they attempt to attribute the lead to a petroleum release. The subject property is the location of Georgia Power's Plant Branch, a former coal-fired steam electrical generating plant. The coal fired units were retired in 2015 and the plant is currently undergoing a complete decommissioning. An electrical substation will be the only remaining operation at the property when decommissioning is complete.

The soil contamination was found in an area that was previously used as a skeet range and the PAHs are being attributed to leaching from fragments of clay pigeons, which used tar pitch as a binder. The arsenic contamination is attributed to historic fill material. Groundwater contamination is being attributed to former coal storage and maintenance operations.

The subject property was previously listed on the Hazardous Site Inventory (HSI), but was de-listed in 2002. The site was able to certify soil and groundwater for residential risk reduction standards in 2002. It appears these newly detected areas of contamination are not associated with the previous HSI site listing and will be evaluated as new releases.

II. Findings

The site is completely fenced and has active security in the form of 24-hour onsite guards and video surveillance. The area of the former skeet range is well within the property line and the nearest resident was located more than 6000 feet from the skeet range area. The notification indicated they were between 1001 and 3000 feet at the River North condominiums. It is assumed that was measured from the Plant

Georgia Power-Plant Branch Notification

November 15, 2018

Page 2 of 2

entrance. During the site visit, the consultant for Georgia Power indicated that the areas of soil contamination will be remediated sometime during 2019.

The groundwater wells were visibly confirmed and it was evident that area of groundwater contamination is near the shore of Lake Sinclair. The groundwater flow gradient is steep and directly toward Lake Sinclair, which would act a complete groundwater intercept. There is at least 3000 linear feet of surface water between the location of the groundwater release and any downgradient land that could possibly have a drinking water well. Due to the proximity to Lake Sinclair, a drinking water well survey was not performed and there are no downgradient drinking water wells within 3-miles.

RECOMMENDATIONS/FOLLOW-UP: Evaluate the subject property using the RQSM.

PHOTOGRAPHS: Attached

NUMBER OF SAMPLES TAKEN: None

REVIEWED BY:  **DATE:** 11/16/18

File: Non-HSI: [Georgia Power-Plant Branch: Putnam County]



Georgia Power Company
 Plant Harlee Branch
 1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 1 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A security office controls access to the site. The property is completely fenced, has video surveillance, and the property is guarded 24-hours a day. Facing northwest.



Georgia Power Company
 Plant Harlee Branch
 1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 2 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A view of the substation from the parking lot. The area is completely fenced and controlled by a 24-hour manned security office. Facing northwest.



Georgia Power Company
Plant Harlee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 3 of 8

Photographer: Bill Williams

Response and Remediation
Program

Explanation: The entrance to the former skeet range. This is the area where soil contamination was discovered. Facing west.



Georgia Power Company
Plant Harlee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 4 of 8

Photographer: Bill Williams
Response and Remediation
Program

Explanation: The grassy field was part of the skeet range. Samples were collected in this area. Elevated PAHs and arsenic were found in soils.

An excavation/disposal is scheduled for early 2019. Facing west.



Georgia Power Company
 Plant Harlee Branch
 1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 5 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: The flags visible in the foreground and along the tree line are thought to be sample locations 57 and 71. Location 57 had elevated PAHs.



Georgia Power Company
 Plant Harlee Branch
 1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 6 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: Monitoring well MW-C1-06. This was the location where arsenic and cadmium were detected above NC in groundwater. This area was formerly used for coal storage, but there were also a maintenance shop and fuel ASTs in this area.



Georgia Power Company Plant Harlee Branch 1100 Milledgeville Road
Milledgeville
Putnam County
Date: 11/14/2018
Picture: 7 of 8
Photographer: Bill Williams
Response and Remediation Program

Explanation: A view of MW-C2-02. This well was had a detection of lead above the NC. This well was also used to determine groundwater flow direction. The groundwater flow gradient is very steep to the east, directly toward Lake Sinclair. Photo taken facing east.



Georgia Power Company Plant Harlee Branch 1100 Milledgeville Road
Milledgeville
Putnam County
Date: 11/14/2018
Picture: 8 of 8
Photographer: Bill Williams
Response and Remediation Program

Explanation: A view of piezometer PZ-43. This was also used to determine groundwater flow direction, which is to the east directly toward Lake Sinclair. Photo taken facing south.

Location of Photos





3/21/18

- Roads
- State and US Highways
- Interstate Highways
- Rivers/Streams
- Lake/Pond
- Swamp/Marsh
- Census Block Group Boundaries
- Census Block Group with >zero domestic well
- Public Supply Well
- Household

Georgia Power Plant Branch
1100 Milleggeville Road
Milledgeville, Putnum County

Scale: 1 inch = 1 mile
33 12' 26 83 19' 17

Sources: Wells from USGS GWSI (1999); EPD WRB Non-Municipal Wells (1997); EPD HWMB field surveys (1999); Surface Water Intakes from EPD GSB DR96-27(1996); Roads, Rivers, Wetlands from Georgia DOT (1993); Census data from U.S. Bureau of Census (1990)

APPENDIX C

Laboratory Reports

September 06, 2023

Joju Abraham
 Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient
 Work Order: 634447

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. 634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023


Analysis Methods and Analysis Dates



<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S Project: GPCC00101
Sample ID: 634447001 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:06
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S Project: GPCC00101
Sample ID: 634447001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S Project: GPCC00101
Sample ID: 634447002 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:05
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S Project: GPCC00101
Sample ID: 634447002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO ₃)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-51 Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:10
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I Project: GPCC00101
Sample ID: 634447003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance Upgradient

Client Sample ID: BRA-BRGWA-6S Project: GPCC00101
Sample ID: 634447004 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:15
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S Project: GPCC00101
Sample ID: 634447004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO3)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-21 Project: GPCC00101
Sample ID: 634447005 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 10:12
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I	Project: GPCC00101
Sample ID: 634447005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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QC Summary

Report Date: September 6, 2023

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Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634447

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
QC1205497371	634145003	DUP									
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23	15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L			95.6 (90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L			98.3 (90%-110%)			
Nitrate-N	2.50			2.36	mg/L			94.3 (90%-110%)			
Sulfate	10.0			9.76	mg/L			97.6 (90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497373	634145003	PS									
Chloride	5.00	3.15		8.45	mg/L			106 (90%-110%)		08/24/23	15:36

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165	LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23	22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium			U	ND	mg/L				PRB	08/31/23	22:18
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			

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QC Summary

Workorder: 634447

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23	22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23	22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)			

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)	PRB	08/31/23	22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)			
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Calcium			4170	869	ug/L	4.2		(0%-20%)		09/01/23	09:04
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Cobalt			3.84	J	0.796	ug/L	3.56	(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23	22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24
QC1205499045	LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499048	634447002	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077	634352015	DUP									
Total Dissolved Solids	U	ND	U	ND	mg/L	N/A			CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Batch	2482658										
QC1205499081	634205010	DUP									
Total Dissolved Solids		400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23	14:03
QC1205499080	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23	14:03
QC1205499079	MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23	14:03
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001	PS									
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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QC Summary

Workorder: 634447

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2484392										
QC1205502340	634448001	DUP									
Alkalinity, Total as CaCO3			65.8	65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23	11:54
Bicarbonate alkalinity (CaCO3)			65.8	65.5	mg/L	0.457		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342	634643001	DUP									
Alkalinity, Total as CaCO3			80.2	80.4	mg/L	0.249		(0%-20%)		08/29/23	12:16
Bicarbonate alkalinity (CaCO3)			80.2	80.4	mg/L	0.249		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339	LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23	11:37
QC1205502344	LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23	11:38
QC1205502341	634448001	MS									
Alkalinity, Total as CaCO3	50.0		65.8	118	mg/L		104	(80%-120%)		08/29/23	11:54

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2484392										
QC1205502343	634643001	MS									
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634447**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB) ICP-MS
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved**Analytical Method:** SM 2540C**Analytical Procedure:** GL-GC-E-001 REV# 21**Analytical Batch:** 2482658

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

63447 634450

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - Upgradient
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: J. Braswell ACC
 Send Results To: SCS & Geosyntec Contacts
 Phone # 404-506-7116
 Fax # _____

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (1)	Field Filtered (2)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
						Yes, please supply isotopic info.	(7) Known or possible Hazards		NI	NI	NI	NI	
BRA-BRGWA-2S	08/22/23	1006	G	N	WG			8	CL, P, SO4, TDS, NO3 EPA 300, SM 254C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	
BRA-BR6WA-5S	08/22/23	1005	G	N	WG			8					
BRA-BR6WA-5I	08/22/23	1010	G	N	WG			8					
BRA-BR6WA-6S	08/22/23	1015	G	N	WG			8					
BRA-BR6WA-2I	08/22/23	1012	G	N	WG			8					
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/23/23	6:32	<i>[Signature]</i>	8/23/23	8:38
<i>[Signature]</i>	8/23/23	1:00	<i>[Signature]</i>	8/23/23	1:30

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Co,Ph,Li,Mo,Se,Ti,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634643
 634448 634447
 634443 634450
 634441 634444
 634446

Client: **EXPP**
 Received By: **MVH**
 SDG/AR/COC/Work Order:
 Date Received: **08-23-2023**
 Carrier and Tracking Number: **COOLER 2-3°C, COOLER 4-1°C, COOLER 6-1°C, COOLER 1-2°C, COOLER 3-1°C, COOLERS 5-2°C**
 Circle Applicable: **Courier** Other

Suspected Hazard Information

A) Shipped as a DOT Hazardous?	Yes	No	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	Yes	No	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	Yes	No	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	Yes	No	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	Yes	No	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: MOA-P2-G11, BRA-BREWA-S1, BRA-BREWA-23S,
7 Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	✓			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13 COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BREWA-2S, BRA-BREWA-6S, BRA-BREWC-32S, BRA-BRAWA-2I, BRA-BREWC-37S, BRA-BRWL-34S, BRA-BRWL-30I Sulfide
 Samples didnt hold proper preservation.

PM (or PMA) review: Initials **AT** Date **8/25/23** Page **1** of **1**

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 22, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient-R
Work Order: 634450

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
634450001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634450002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634450003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634450004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634450005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

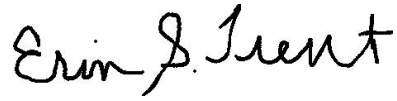
Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023



Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Erin J. Trent". The signature is written in a cursive style with a large, stylized "E" and "T".

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634450 GEL Work Order: 634450

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2S
 Sample ID: 634450001
 Matrix: WG
 Collect Date: 22-AUG-23
 Receive Date: 23-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.216	+/-0.967	1.76	+/-0.969	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.592	+/-0.998	1.76	+/-1.00		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.377	+/-0.246	0.301	+/-0.257	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	91.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5S

Project: GPCC00101

Sample ID: 634450002

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.19	+/-1.05	1.70	+/-1.09	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.31	+/-1.06	1.70	+/-1.11		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.119	+/-0.181	0.320	+/-0.183	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	82.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5I

Project: GPCC00101

Sample ID: 634450003

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.862	+/-0.810	1.30	+/-0.839	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.36	+/-0.850	1.30	+/-0.884		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.501	+/-0.260	0.308	+/-0.277	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	79.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-6S

Project: GPCC00101

Sample ID: 634450004

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.62	+/-1.32	2.15	+/-1.39	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.89	+/-1.34	2.15	+/-1.41		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.271	+/-0.238	0.364	+/-0.243	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	90	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2I

Project: GPCC00101

Sample ID: 634450005

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.367	+/-0.729	1.31	+/-0.735	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.857	+/-0.777	1.31	+/-0.788		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.490	+/-0.269	0.294	+/-0.284	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634450**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis

Samples were re-prepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 22, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634450

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2494433										
QC1205520856	634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/23	08:46
	Uncert:	+/-0.702		+/-0.838							
	TPU:	+/-0.702		+/-0.891							
QC1205520857	LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/23	08:46
	Uncert:			+/-4.33							
	TPU:			+/-19.9							
QC1205520855	MB										
Radium-228				1.38	pCi/L				JE1	09/22/23	08:46
	Uncert:			+/-0.802							
	TPU:			+/-0.875							
Rad Ra-226											
Batch	2482017										
QC1205498038	634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-0.249							
	TPU:	+/-0.337		+/-0.251							
QC1205498040	LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:			+/-2.02							
	TPU:			+/-5.55							
QC1205498037	MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/23	09:26
	Uncert:			+/-0.184							
	TPU:			+/-0.188							
QC1205498039	634443001 MS										
Radium-226	137	U	0.401	103	pCi/L		75.1	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:		+/-0.326	+/-7.23							
	TPU:		+/-0.337	+/-17.8							

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634450

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

034447

034450

Page: _____ of _____

Project # _____

GEL Quote #: _____

COC Number (1): _____

PO Number: _____

Client Name: GA Power

Project/Site Name: Plant Branch Ash Ponds - Upgradient

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Braxton ACC

Send Results To: SCS & Geosyntec Contacts

GEL Laboratories LLC
Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: _____

Phone # 404-506-7116

Fax # _____

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (6)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)				Preservative Type (6)	Comments	
						(F) Radioactive (Isotope info)	(7) Known or possible Hazards	Total number of containers	Metals *	Radium 226 & 228	SM 4500			Soil
BRA-BR6WA-2S	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-5S	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-5I	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-6S	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓		
BRA-BR6WA-2I	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Time _____

Received by (signed) _____ Date _____ Time _____

1. _____ 8/23/23 6:32

2. _____ 8/23/23 1:00

3. _____

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Ni, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Settiment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	As = Arsenic	Hg = Mercury	Se = Selenium
Ba = Barium	Ag = Silver	Cr = Chromium	MR = Misc. RCRA metals
Pb = Lead			

Characteristic Hazards

FL = Flammable/Ignitable

CO = Corrosive

RE = Reactive

Listed Waste

LW = Listed Waste

(F, K, P and U-listed wastes)

Waste code(s): _____

TSCA Regulated

PCB = Polychlorinated biphenyls

Other

OT = Other / Unknown

(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634443
 634448 634447
 634443 634450
 634441 634444
 634446

Client: <u>CCPP</u>		SDG/AR/COC/Work Order:			
Received By: <u>MVH</u>		Date Received: <u>8/23/2023</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Carrier</u> Other			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. COOLR-2-3°C COOLR-4-1°C COOLR-6-1°C COOLR-1-2°C COOLR-3-1°C COOLR-5-2°C			
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/AmR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>MSLA-P2-G11, BRA-BREW-A-51, BRA-BREW-A-23S,</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Preservation added, Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Are liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-34S, BRA-BREW-C-30I Sulfide samples didnt hold proper preservation.</u>					

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

List of current GEL Certifications as of 22 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 08, 2023

Joju Abraham
 Georgia Power Company, Southern Company
 241 Ralph McGill Blvd NE, Bin 10160
 Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
 Work Orders: 634650,634444 and 634768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" "BRA-PZ-59I" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. 634650001(BRA-PZ-51I), 634650002(BRA-PZ-58I), 634650003(BRA-PZ-59I), 634650004(BRA-PZ-60I), 634650005(BRA-PZ-63I), 634650006(BRA-PZ-64I), 634650007(BRA-PZ-68D), 634650010(BRA-APBCD-FD-02), 634650011(BRA-BRGWC-50), 634650014(BRA-PZ-50D). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
634444001	BRA-PZ-57I	Ground Water	21/08/23 17:55	23/08/23 13:00
634444002	BRA-PZ-65I	Ground Water	21/08/23 17:45	23/08/23 13:00
634444003	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634444004	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634444005	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634444006	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634444007	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634650001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634650002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634650003	BRA-PZ-59I	Ground Water	23/08/23 11:40	24/08/23 12:43
634650004	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634650005	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634650006	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43

634650007	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634650008	BRA-APBCD-FB-02	Water	23/08/23 14:50	24/08/23 12:43
634650009	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634650010	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634650011	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634650012	BRA-APBCD-EB-04	Water	23/08/23 11:35	24/08/23 12:43
634650013	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634650014	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634768001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634768002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634768003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634768004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634768005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634768006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634768007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634768008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634768009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634768010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634768011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634768012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634768013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

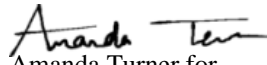
<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	25-AUG-2023
SW846 3005A	29-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	28-AUG-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
EPA 300.0	26-AUG-2023
SM 2320B	01-SEP-2023
SM 2320B	24-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	29-AUG-2023
SM 2540C	30-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	08-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	29-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634650 GEL Work Order: 634650

The Qualifiers in this report are defined as follows:

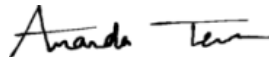
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634768 GEL Work Order: 634768

The Qualifiers in this report are defined as follows:

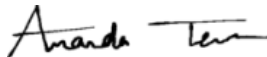
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634444 GEL Work Order: 634444

The Qualifiers in this report are defined as follows:

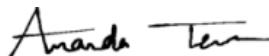
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-511 Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 15:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.43	0.0670	0.200	mg/L		1	LXA2	08/24/23	2002	2482641	1
Fluoride	J	0.0744	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1200	13.3	40.0	mg/L		100	LXA2	08/25/23	1742	2482641	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1108	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1317	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000679	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.136	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0221	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.430	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1131	2482707	5
Calcium		217	0.400	1.00	mg/L	1.00	5					
Magnesium		133	0.0500	0.150	mg/L	1.00	5					
Manganese		49.9	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1147	2482707	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	8

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51I Project: GPCC00101
Sample ID: 634650001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		23.5	0.725	2.00	mg/L			JW2	09/01/23	1044	2486265	9
Bicarbonate alkalinity (CaCO ₃)		23.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I	Project: GPCC00101
Sample ID: 634650002	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 15:10	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	LXA2	08/24/23	2033	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		11.0	0.335	1.00	mg/L		5	LXA2	08/25/23	1844	2482641	2
Sulfate		949	13.3	40.0	mg/L		100	LXA2	08/25/23	1813	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1113	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1339	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0173	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00453	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000860	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00494	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0250	2482707	6
Lithium		0.0468	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.79	0.0800	0.300	mg/L	1.00	1					
Manganese		31.4	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1209	2482707	7
Beryllium		0.0328	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1206	2482707	8
Boron		0.429	0.0260	0.0750	mg/L	1.00	5					
Calcium		162	0.400	1.00	mg/L	1.00	5					
Cobalt		0.556	0.00150	0.00500	mg/L	1.00	5					
Iron		52.8	0.165	0.500	mg/L	1.00	5					
Magnesium		85.8	0.0500	0.150	mg/L	1.00	5					
Sodium		34.7	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I Project: GPCC00101
Sample ID: 634650002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1046	2486265	11
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I Project: GPCC00101
Sample ID: 634650003 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 11:40
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I	Project: GPCC00101
Sample ID: 634650004	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 13:25	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	LXA2	08/24/23	2104	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1830	26.6	80.0	mg/L		200	LXA2	08/25/23	1914	2482641	2
Chloride		25.0	0.670	2.00	mg/L		10	LXA2	08/25/23	1945	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1115	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.0670	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1450	2482707	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0253	2482707	6
Iron		1.60	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0936	0.00300	0.0100	mg/L	1.00	1					
Manganese		175	1.00	5.00	mg/L	1.00	1000	PRB	09/08/23	1215	2482707	7
Boron		0.300	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1212	2482707	8
Calcium		294	0.800	2.00	mg/L	1.00	10					
Cobalt		3.79	0.00300	0.0100	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		13.8	0.800	3.00	mg/L	1.00	10					
Sodium		65.3	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1342	2482707	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0149	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00430	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	11

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I Project: GPCC00101
Sample ID: 634650004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1047	2486265	12
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 634650005 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.81	0.0670	0.200	mg/L		1	JLD1	08/24/23	1833	2482649	1
Fluoride		0.252	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	JLD1	08/25/23	0358	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1116	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1345	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0221	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000539	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0257	2482707	5
Cobalt		0.0309	0.000300	0.00100	mg/L	1.00	1					
Iron		1.18	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00516	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.62	0.0800	0.300	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1218	2482707	6
Boron		0.706	0.0520	0.150	mg/L	1.00	10					
Calcium		56.8	0.800	2.00	mg/L	1.00	10					
Magnesium		37.7	0.100	0.300	mg/L	1.00	10					
Manganese		6.97	0.0100	0.0500	mg/L	1.00	10					
Sodium		18.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		503	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I	Project: GPCC00101
Sample ID: 634650005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		29.1	0.725	2.00	mg/L			JW2	09/01/23	1049	2486265	9
Bicarbonate alkalinity (CaCO3)		29.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I Project: GPCC00101
Sample ID: 634650006 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 10:55
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	LXA2	08/24/23	1932	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2550	26.6	80.0	mg/L		200	LXA2	08/25/23	2118	2482641	2
Chloride		36.5	1.34	4.00	mg/L		20	LXA2	08/25/23	2149	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1118	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		10.6	0.300	1.00	mg/L	1.00	1000	PRB	09/08/23	1224	2482707	5
Manganese		380	1.00	5.00	mg/L	1.00	1000					
Calcium		363	0.800	2.00	mg/L	1.00	10	PRB	09/08/23	1221	2482707	6
Magnesium		261	0.100	0.300	mg/L	1.00	10					
Potassium		13.5	0.800	3.00	mg/L	1.00	10					
Sodium		75.3	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00834	0.00520	0.0150	mg/L	1.00	1	PRB	09/08/23	0301	2482707	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		3.00	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0126	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1349	2482707	8
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0177	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0163	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1454	2482707	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I Project: GPCC00101
Sample ID: 634650006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.9	0.725	2.00	mg/L			JW2	09/01/23	1051	2486265	12
Bicarbonate alkalinity (CaCO ₃)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:08
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.218	0.0330	0.100	mg/L		1	JLD1	08/24/23	1905	2482649	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		23.0	1.68	5.00	mg/L		25	JLD1	08/25/23	0429	2482649	2
Sulfate		298	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1119	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1227	2482707	4
Arsenic	J	0.00342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00625	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1231	2482707	5
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Manganese		0.851	0.00500	0.0250	mg/L	1.00	5					
Potassium		11.4	0.400	1.50	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0304	2482707	6
Cobalt		0.00106	0.000300	0.00100	mg/L	1.00	1					
Iron		1.04	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00399	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 634650007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		122	0.725	2.00	mg/L			JW2	09/01/23	1053	2486265	9
Bicarbonate alkalinity (CaCO ₃)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02	Project: GPCC00101
Sample ID: 634650008	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 14:50	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	1936	2482649	1
Fluoride		0.516	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1121	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1234	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00104	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.105	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00124	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.370	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1056	2486265	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 634650009 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1220	26.6	80.0	mg/L		200	JLD1	08/25/23	0532	2482649	1
Chloride		14.7	0.335	1.00	mg/L		5	JLD1	08/25/23	0501	2482649	2
Fluoride		0.583	0.0330	0.100	mg/L		1	JLD1	08/24/23	2007	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1123	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1352	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00731	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0319	2482707	6
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0392	0.00300	0.0100	mg/L	1.00	1					
Potassium		9.96	0.0800	0.300	mg/L	1.00	1					
Beryllium		0.00869	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1243	2482707	7
Boron		0.366	0.0260	0.0750	mg/L	1.00	5					
Calcium		220	0.400	1.00	mg/L	1.00	5					
Cobalt		1.43	0.00150	0.00500	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Sodium		51.3	0.400	1.25	mg/L	1.00	5					
Manganese		78.2	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1246	2482707	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2000	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01	Project: GPCC00101
Sample ID: 634650009	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	09/01/23	1058	2486265	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02	Project: GPCC00101
Sample ID: 634650010	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-23 12:00	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	JLD1	08/24/23	2039	2482649	1
Fluoride		0.255	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		295	3.33	10.0	mg/L		25	JLD1	08/25/23	0603	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1124	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1355	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0217	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1249	2482707	5
Boron		0.699	0.0520	0.150	mg/L	1.00	10					
Calcium		53.4	0.800	2.00	mg/L	1.00	10					
Magnesium		36.0	0.100	0.300	mg/L	1.00	10					
Manganese		6.63	0.0100	0.0500	mg/L	1.00	10					
Sodium		17.8	0.800	2.50	mg/L	1.00	10					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0322	2482707	6
Cobalt		0.0300	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.42	0.0800	0.300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 634650010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		29.7	0.725	2.00	mg/L			JW2	09/01/23	1100	2486265	9
Bicarbonate alkalinity (CaCO ₃)		29.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 634650011 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 11:00
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	0.335	1.00	mg/L		5	JLD1	08/25/23	0738	2482649	1
Sulfate		1290	26.6	80.0	mg/L		200	JLD1	08/25/23	0809	2482649	2
Fluoride		0.499	0.0330	0.100	mg/L		1	JLD1	08/24/23	2110	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1126	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1358	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00744	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		103	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1255	2482707	6
Beryllium		0.00867	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1252	2482707	7
Boron		0.372	0.0260	0.0750	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Cobalt		1.38	0.00150	0.00500	mg/L	1.00	5					
Magnesium		142	0.0500	0.150	mg/L	1.00	5					
Potassium		10.6	0.400	1.50	mg/L	1.00	5					
Sodium		49.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0326	2482707	8
Iron		0.409	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0393	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2180	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50	Project: GPCC00101
Sample ID: 634650011	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.0	0.725	2.00	mg/L			JW2	09/01/23	1101	2486265	11
Bicarbonate alkalinity (CaCO3)		11.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04	Project: GPCC00101
Sample ID: 634650012	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-23 11:35	
Receive Date: 24-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	2142	2482649	1
Fluoride		0.503	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1128	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1259	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0165	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00140	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.359	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 634650012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1104	2486265	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 634650013 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 16:40
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		49.5	0.665	2.00	mg/L		5	JLD1	08/25/23	1308	2482649	1
Chloride		6.83	0.0670	0.200	mg/L		1	JLD1	08/24/23	2213	2482649	2
Fluoride		0.195	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1133	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1302	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0555	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0501	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00560	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.478	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.44	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.35	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1305	2482707	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1058	2482961	7

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44	Project: GPCC00101
Sample ID: 634650013	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.3	0.725	2.00	mg/L			JW2	09/01/23	1105	2486265	8
Bicarbonate alkalinity (CaCO3)		81.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D Project: GPCC00101
Sample ID: 634650014 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23 12:30
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.1	0.335	1.00	mg/L		5	JLD1	08/25/23	1340	2482649	1
Sulfate		854	13.3	40.0	mg/L		100	JLD1	08/25/23	1411	2482649	2
Fluoride		0.193	0.0330	0.100	mg/L		1	JLD1	08/24/23	2244	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1134	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0337	2482707	5
Cobalt		0.00991	0.000300	0.00100	mg/L	1.00	1					
Iron		4.37	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0232	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1401	2482707	6
Arsenic	J	0.00300	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0312	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1308	2482707	7
Boron		0.285	0.0260	0.0750	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Magnesium		73.3	0.0500	0.150	mg/L	1.00	5					
Manganese		2.56	0.00500	0.0250	mg/L	1.00	5					
Potassium		12.0	0.400	1.50	mg/L	1.00	5					
Sodium		39.5	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1360	4.76	20.0	mg/L			CH6	08/30/23	1542	2484583	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1300	2483779	9

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 634650014	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		72.2	0.725	2.00	mg/L			JW2	09/01/23	1107	2486265	10
Bicarbonate alkalinity (CaCO3)		72.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03	Project: GPCC00101
Sample ID: 634768001	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 12:00	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.4	0.670	2.00	mg/L		10	JLD1	08/26/23	1600	2483105	1
Sulfate		112	1.33	4.00	mg/L		10					
Fluoride		0.198	0.0330	0.100	mg/L		1	JLD1	08/25/23	1644	2483105	2
Nitrate-N	J	0.0476	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1212	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1808	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0442	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00228	0.000300	0.00100	mg/L	1.00	1					
Iron		0.170	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.220	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.04	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/30/23	1648	2484591	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 634768001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.1	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05	Project: GPCC00101
Sample ID: 634768002	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-23 09:55	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/25/23	1826	2483105	1
Fluoride	J	0.0798	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1213	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1811	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.104	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	5

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L		JW2	09/01/23	1112	2486267		6
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I	Project: GPCC00101
Sample ID: 634768003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 12:25	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.81	0.0670	0.200	mg/L		1	JLD1	08/25/23	1857	2483105	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0657	0.0330	0.100	mg/L		1					
Sulfate		94.5	1.33	4.00	mg/L		10	JLD1	08/26/23	1631	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1215	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1840	2483979	4
Calcium		74.4	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1815	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00601	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0749	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.53	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.458	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1301	2483779	7

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I	Project: GPCC00101
Sample ID: 634768003	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.6	0.725	2.00	mg/L			JW2	09/01/23	1114	2486267	8
Bicarbonate alkalinity (CaCO3)		35.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 12:06
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.5	0.670	2.00	mg/L		10	JLD1	08/26/23	1702	2483105	1
Sulfate		114	1.33	4.00	mg/L		10					
Fluoride		0.185	0.0330	0.100	mg/L		1	JLD1	08/25/23	1928	2483105	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1217	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1855	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0444	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00221	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.211	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000356	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		242	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		45.2	0.725	2.00	mg/L			JW2	09/01/23	1116	2486267	7
Bicarbonate alkalinity (CaCO ₃)		45.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-75I	Project: GPCC00101
Sample ID: 634768005	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 10:51	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.84	0.0670	0.200	mg/L		1	JLD1	08/25/23	2102	2483105	1
Fluoride		0.140	0.0330	0.100	mg/L		1					
Nitrate-N		0.794	0.0330	0.100	mg/L		1					
Sulfate		275	2.66	8.00	mg/L		20	JLD1	08/26/23	1734	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1218	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.51	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1902	2483979	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1858	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0513	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		47.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.464	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00579	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0957	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.45	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0696	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		430	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	7

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-75I Project: GPCC00101
Sample ID: 634768005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.2	0.725	2.00	mg/L			JW2	09/01/23	1118	2486267	8
Bicarbonate alkalinity (CaCO ₃)		27.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 14:15
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	1.68	5.00	mg/L		25	JLD1	08/26/23	1805	2483105	1
Sulfate		309	3.33	10.0	mg/L		25					
Fluoride		0.157	0.0330	0.100	mg/L		1	JLD1	08/25/23	2134	2483105	2
Nitrate-N	J	0.0475	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1220	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1906	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0346	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000590	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0585	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.66	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0423	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.47	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1909	2483979	5
Calcium		69.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1415	2483133	7

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 634768006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		42.6	0.725	2.00	mg/L			JW2	09/01/23	1122	2486267	8
Bicarbonate alkalinity (CaCO ₃)		42.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 15:20
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		288	3.33	10.0	mg/L		25	JLD1	08/26/23	1837	2483105	1
Chloride		6.08	0.0670	0.200	mg/L		1	JLD1	08/25/23	2205	2483105	2
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N		0.297	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1222	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.34	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1924	2483979	4
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Manganese		1.38	0.0200	0.100	mg/L	1.00	20					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1036	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1920	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0174	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00113	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00724	0.000300	0.00100	mg/L	1.00	1					
Iron		23.3	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.76	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 634768007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1124	2486267	9
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 11:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		22.2	2.68	8.00	mg/L		40	HXC1	08/25/23	2133	2483150	1
Sulfate		346	5.32	16.0	mg/L		40					
Fluoride		0.395	0.0330	0.100	mg/L		1	HXC1	08/25/23	1439	2483150	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1223	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1927	2483979	4
Arsenic	J	0.00408	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0448	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0387	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000427	0.000300	0.00100	mg/L	1.00	1					
Iron		1.82	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00142	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		52.2	1.60	5.00	mg/L	1.00	20	PRB	09/07/23	1038	2483979	5
Calcium		120	1.60	4.00	mg/L	1.00	20	PRB	09/06/23	1931	2483979	6
Manganese		1.34	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		638	4.76	20.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide		0.192	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 634768008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		134	0.725	2.00	mg/L			JW2	09/01/23	1125	2486267	9
Bicarbonate alkalinity (CaCO ₃)		134	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03	Project: GPCC00101
Sample ID: 634768009	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-23 12:55	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/25/23	1510	2483150	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1225	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1935	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium	J	0.185	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1040	2483979	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	6

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 634768009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1129	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23 14:00
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.282	0.0670	0.200	mg/L		1	HXC1	08/25/23	1541	2483150	1
Fluoride		0.435	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1227	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium	J	0.115	0.0800	0.200	mg/L	1.00	1	PRB	09/07/23	1042	2483979	3
Sodium		0.352	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1938	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000812	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0180	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1417	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 634768010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1130	2486267	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I	Project: GPCC00101
Sample ID: 634768011	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 13:05	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		150	1.33	4.00	mg/L		10	HXC1	08/25/23	2204	2483150	1
Fluoride	J	0.188	0.0660	0.200	mg/L		2	HXC1	08/25/23	2234	2483150	2
Chloride		6.28	0.0670	0.200	mg/L		1	HXC1	08/25/23	1612	2483150	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1232	2483668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.87	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1945	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1942	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0415	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000317	0.000300	0.00100	mg/L	1.00	1					
Iron		0.956	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.549	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000782	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1044	2483979	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		281	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	9

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I Project: GPCC00101
Sample ID: 634768011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		53.3	0.725	2.00	mg/L			JW2	09/01/23	1133	2486267	10
Bicarbonate alkalinity (CaCO ₃)		53.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47	Project: GPCC00101
Sample ID: 634768012	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-23 14:45	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.67	0.0670	0.200	mg/L		1	HXC1	08/25/23	1643	2483150	1
Fluoride		0.243	0.0330	0.100	mg/L		1					
Nitrate-N		0.117	0.0330	0.100	mg/L		1					
Sulfate		1300	26.6	80.0	mg/L		200	HXC1	08/25/23	2305	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1233	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1956	2483979	4
Arsenic	J	0.00380	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.291	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00873	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.689	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2000	2483979	5
Calcium		347	0.800	2.00	mg/L	1.00	10					
Magnesium		133	0.100	0.300	mg/L	1.00	10					
Sodium		44.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1046	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 634768012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.3	0.725	2.00	mg/L			JW2	09/01/23	1135	2486267	9
Bicarbonate alkalinity (CaCO ₃)		27.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001
Matrix: WG
Collect Date: 24-AUG-23 16:47
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	HXC1	08/25/23	1726	2483150	1
Fluoride		0.250	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		174	2.66	8.00	mg/L		20	HXC1	08/25/23	2336	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1235	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2004	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0271	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00343	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	2007	2483979	5
Calcium		69.6	1.60	4.00	mg/L	1.00	20					
Manganese		2.14	0.0200	0.100	mg/L	1.00	20					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1048	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		354	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1419	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 634768013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		98.8	0.725	2.00	mg/L			JW2	09/01/23	1137	2486267	9
Bicarbonate alkalinity (CaCO ₃)		98.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-57I	Project:	GPCC00101
Sample ID:	634444001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:55		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	634444002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:45		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-S (2-) D		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 12:40
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.41	0.0670	0.200	mg/L		1	JLD1	08/23/23	1959	2481584	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Nitrate-N		0.212	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1209	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0916	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2308	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0434	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0390	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.95	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0877	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.18	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.81	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.63	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 634444003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.9	0.725	2.00	mg/L			JW2	08/24/23	1610	2482476	7
Bicarbonate alkalinity (CaCO ₃)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23 15:22
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/23/23	2030	2481584	1
Fluoride		0.116	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1250	13.3	40.0	mg/L		100	JLD1	08/24/23	1118	2481584	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1211	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.05	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0918	2482703	4
Calcium		414	1.60	4.00	mg/L	1.00	20					
Magnesium		63.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.40	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2312	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00183	0.000300	0.00100	mg/L	1.00	1					
Iron		0.992	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00111	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		30.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1920	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1743	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I Project: GPCC00101
Sample ID: 634444004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		126	0.725	2.00	mg/L			JW2	08/24/23	1612	2482476	8
Bicarbonate alkalinity (CaCO ₃)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S	Project: GPCC00101
Sample ID: 634444005	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 14:20	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		256	3.33	10.0	mg/L		25	JLD1	08/24/23	1150	2481584	1
Chloride		4.30	0.0670	0.200	mg/L		1	JLD1	08/23/23	2102	2481584	2
Fluoride	J	0.0477	0.0330	0.100	mg/L		1					
Nitrate-N		0.184	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1216	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2315	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0935	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium		0.210	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00207	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0920	2482703	5
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0922	2482703	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		412	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S Project: GPCC00101
Sample ID: 634444005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		28.6	0.725	2.00	mg/L			JW2	08/24/23	1615	2482476	9
Bicarbonate alkalinity (CaCO ₃)		28.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I	Project: GPCC00101
Sample ID: 634444006	Client ID: GPCC001
Matrix: WG	
Collect Date: 22-AUG-23 16:15	
Receive Date: 23-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1440	26.6	80.0	mg/L		200	HXC1	08/24/23	1638	2481608	1
Chloride		15.7	0.335	1.00	mg/L		5	HXC1	08/25/23	0258	2481608	2
Fluoride		0.188	0.0330	0.100	mg/L		1	HXC1	08/23/23	1911	2481608	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1218	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		107	0.500	2.50	mg/L	1.00	500	PRB	09/01/23	0928	2482703	5
Sodium		59.6	0.800	2.50	mg/L	1.00	10	PRB	09/01/23	1032	2482703	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2319	2482703	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0127	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00145	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000496	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.757	0.000300	0.00100	mg/L	1.00	1					
Iron		0.348	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0106	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.30	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00483	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.331	0.0260	0.0750	mg/L	1.00	5	PRB	09/01/23	0951	2482703	8
Calcium		209	0.400	1.00	mg/L	1.00	5					
Magnesium		172	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	10

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I	Project: GPCC00101
Sample ID: 634444006	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.3	0.725	2.00	mg/L			JW2	08/24/23	1616	2482476	11
Bicarbonate alkalinity (CaCO3)		11.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001
Matrix: WQ
Collect Date: 22-AUG-23 14:00
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.388	0.0330	0.100	mg/L		1	HXC1	08/25/23	0227	2481608	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/23/23	1941	2481608	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1219	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2330	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000729	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00673	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0283	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.291	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0934	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1618	2482476	8
Bicarbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 7, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
QC1205499912	634768007	DUP									
Chloride		6.08		5.97	mg/L	1.71		(0%-20%)	JLD1	08/25/23	22:37
Fluoride	J	0.0849	J	0.0881	mg/L	3.7	^	(+/-0.100)			
Nitrate-N		0.297		0.293	mg/L	1.36	^	(+/-0.100)			
Sulfate		288		292	mg/L	1.47		(0%-20%)		08/26/23	19:08
QC1205499911	LCS										
Chloride	5.00			4.84	mg/L			96.7 (90%-110%)		08/26/23	00:42
Fluoride	2.50			2.57	mg/L			103 (90%-110%)			
Nitrate-N	2.50			2.40	mg/L			96 (90%-110%)			
Sulfate	10.0			9.88	mg/L			98.8 (90%-110%)			
QC1205499910	MB										
Chloride			U	ND	mg/L					08/26/23	00:11
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499913	634768007	PS									
Chloride	5.00	6.08		11.6	mg/L			110 (90%-110%)		08/25/23	23:08

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483105										
Fluoride	2.50	J	0.0849	2.82	mg/L		109	(90%-110%)	JLD1	08/25/23	23:08
Nitrate-N	2.50		0.297	2.74	mg/L		97.6	(90%-110%)			
Sulfate	10.0		11.5	21.8	mg/L		103	(90%-110%)		08/26/23	19:39
Batch	2483150										
QC1205499980	634784001 DUP										
Chloride			4.43	4.44	mg/L	0.11		(0%-20%)	HXC1	08/25/23	18:28
Fluoride			0.334	0.337	mg/L	0.983	^	(+/-0.100)			
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66	^	(+/-0.100)		
Sulfate			293	294	mg/L	0.0981		(0%-20%)		08/26/23	00:38
QC1205499979	LCS										
Chloride	5.00			4.79	mg/L		95.9	(90%-110%)		08/25/23	21:02
Fluoride	2.50			2.49	mg/L		99.6	(90%-110%)			
Nitrate-N	2.50			2.38	mg/L		95.4	(90%-110%)			
Sulfate	10.0			9.79	mg/L		97.9	(90%-110%)			
QC1205499978	MB										
Chloride			U	ND	mg/L					08/25/23	19:29
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2483150										
Sulfate			U	ND	mg/L				HXC1	08/25/23	19:29
QC1205499981 634784001 PS											
Chloride	5.00	4.43		9.90	mg/L		109	(90%-110%)		08/25/23	18:59
Fluoride	2.50	0.334		2.76	mg/L		97	(90%-110%)			
Nitrate-N	2.50	J 0.0807		2.45	mg/L		94.7	(90%-110%)			
Sulfate	10.0	7.33		17.7	mg/L		103	(90%-110%)		08/26/23	01:09
Metals Analysis - ICPMS											
Batch	2483979										
QC1205501592 LCS											
Antimony	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	09/06/23	18:04
Arsenic	0.0500			0.0507	mg/L		101	(80%-120%)			
Barium	0.0500			0.0497	mg/L		99.5	(80%-120%)			
Beryllium	0.0500			0.0581	mg/L		116	(80%-120%)			
Boron	0.100			0.110	mg/L		110	(80%-120%)			
Cadmium	0.0500			0.0516	mg/L		103	(80%-120%)			
Calcium	2.00			2.10	mg/L		105	(80%-120%)			
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)			
Cobalt	0.0500			0.0507	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Iron	2.00			2.01	mg/L		101	(80%-120%)	PRB	09/06/23	18:04
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)			
Magnesium	2.00			2.08	mg/L		104	(80%-120%)			
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)			
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)			
Sodium	2.00			2.25	mg/L		112	(80%-120%)			
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)			
QC1205501591	MB										
Antimony			U	ND	mg/L					09/06/23	18:00
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cadmium			U	ND	mg/L				PRB	09/06/23	18:00
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205501593	634768003	MS									
Antimony	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)		09/06/23	18:18

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Arsenic	0.0500	U	ND	0.0514	mg/L		99.8	(75%-125%)	PRB	09/06/23	18:18
Barium	0.0500		0.0151	0.0634	mg/L		96.5	(75%-125%)			
Beryllium	0.0500	U	ND	0.0551	mg/L		110	(75%-125%)			
Boron	0.100		1.25	1.39	mg/L		N/A	(75%-125%)		09/06/23	18:44
Cadmium	0.0500	U	ND	0.0492	mg/L		98.3	(75%-125%)		09/06/23	18:18
Calcium	2.00		74.4	76.1	mg/L		N/A	(75%-125%)		09/06/23	18:44
Chromium	0.0500	U	ND	0.0497	mg/L		99	(75%-125%)		09/06/23	18:18
Cobalt	0.0500		0.00601	0.0548	mg/L		97.6	(75%-125%)			
Iron	2.00	J	0.0749	2.05	mg/L		98.8	(75%-125%)			
Lead	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)			
Lithium	0.0500	U	ND	0.0547	mg/L		107	(75%-125%)			
Magnesium	2.00		6.53	8.41	mg/L		94.2	(75%-125%)			
Manganese	0.0500		0.458	0.511	mg/L		N/A	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Potassium	2.00		4.90	6.94	mg/L		102	(75%-125%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Selenium	0.0500	U	ND	0.0488	mg/L		97.5	(75%-125%)	PRB	09/06/23	18:18
Sodium	2.00		16.3	18.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0490	mg/L		98	(75%-125%)			
QC1205501594	634768003 MSD										
Antimony	0.0500	U	ND	0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23	18:22
Arsenic	0.0500	U	ND	0.0495	mg/L	3.85	96	(0%-20%)			
Barium	0.0500		0.0151	0.0615	mg/L	3	92.7	(0%-20%)			
Beryllium	0.0500	U	ND	0.0552	mg/L	0.165	110	(0%-20%)			
Boron	0.100		1.25	1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23	18:47
Cadmium	0.0500	U	ND	0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23	18:22
Calcium	2.00		74.4	74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23	18:47
Chromium	0.0500	U	ND	0.0482	mg/L	3.1	96	(0%-20%)		09/06/23	18:22
Cobalt	0.0500		0.00601	0.0529	mg/L	3.54	93.8	(0%-20%)			
Iron	2.00	J	0.0749	1.96	mg/L	4.48	94.3	(0%-20%)			
Lead	0.0500	U	ND	0.0491	mg/L	2.44	98.1	(0%-20%)			
Lithium	0.0500	U	ND	0.0532	mg/L	2.78	104	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Magnesium	2.00	6.53		8.23	mg/L	2.18	85.2	(0%-20%)	PRB	09/06/23	18:22
Manganese	0.0500	0.458		0.493	mg/L	3.49	N/A	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0513	mg/L	2.83	102	(0%-20%)			
Potassium	2.00	4.90		6.74	mg/L	2.93	92.1	(0%-20%)			
Selenium	0.0500	U	ND	0.0468	mg/L	4.28	93.4	(0%-20%)			
Sodium	2.00	16.3		17.9	mg/L	0.949	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0473	mg/L	3.67	94.4	(0%-20%)			
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		15.1	J	3.20	ug/L	5.84		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23	18:51
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29
Calcium		3720		786	ug/L	5.58		(0%-20%)		09/06/23	18:51
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/23	18:29

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2483979										
Cobalt		6.01		1.25	ug/L	4.24		(0%-20%)	PRB	09/06/23	18:29
Iron	J	74.9	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		6530		1280	ug/L	1.77		(0%-20%)			
Manganese		458		91.7	ug/L	.114		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		4900		968	ug/L	1.19		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		16300		3340	ug/L	2.56		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483668										
QC1205500965	634563009	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23	11:59
QC1205500964	LCS										
Mercury		0.00200		0.00214	mg/L		107	(80%-120%)		08/29/23	11:56
QC1205500963	MB										
Mercury			U	ND	mg/L					08/29/23	11:54

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483668										
QC1205500966	634563009	MS									
Mercury	0.00200	U	ND	0.00211	mg/L		106	(75%-125%)	AXS5	08/29/23	12:00
QC1205500967	634563009	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/29/23	12:02
Solids Analysis											
Batch	2484591										
QC1205502656	634511009	DUP									
Total Dissolved Solids			190	201	mg/L	5.63*		(0%-5%)	CH6	08/30/23	16:48
QC1205502655	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	16:48
QC1205502654	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	16:48
Batch	2484594										
QC1205502665	634784001	DUP									
Total Dissolved Solids			499	515	mg/L	3.16		(0%-5%)	CH6	08/30/23	17:18
QC1205502664	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/30/23	17:18
QC1205502663	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	17:18
Spectrometric Analysis											
Batch	2483133										
QC1205499947	LCS										
Total Sulfide	0.400			0.396	mg/L		99	(85%-115%)	JW2	08/25/23	14:10
QC1205499946	MB										
Total Sulfide			U	ND	mg/L					08/25/23	14:10

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QC Summary

Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch 2483133											
QC1205499950	634768004	PS									
Total Sulfide	0.400	U	ND	0.266	mg/L		65.8*	(75%-125%)	JW2	08/25/23	14:14
QC1205499951	634768004	PSD									
Total Sulfide	0.400	U	ND	0.273	mg/L	2.59	67.5*	(0%-15%)		08/25/23	14:15
Batch 2483779											
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
Titration and Ion Analysis											
Batch 2486267											
QC1205505693	LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23	11:10
QC1205505710	LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23	11:11

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2486267										
QC1205506027	LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)	JW2	09/01/23	11:11
QC1205506195	LCSD										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23	11:11

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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Workorder: 634768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
----------	-----	--------	------	----	-------	------	------	-------	-------	------	------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 6, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634444

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
QC1205497354	634441001	DUP									
Chloride		32.7		32.5	mg/L	0.522	^	(+/-10.0)	JLD1	08/24/23	01:49
Fluoride		0.123		0.124	mg/L	1.13	^	(+/-0.100)		08/24/23	00:14
Nitrate-N	J	0.0707	J	0.0739	mg/L	4.43	^	(+/-0.100)			
Sulfate		466		474	mg/L	1.69		(0%-20%)		08/24/23	01:49
QC1205497353	LCS										
Chloride	5.00			4.64	mg/L			92.8 (90%-110%)		08/23/23	23:42
Fluoride	2.50			2.37	mg/L			94.6 (90%-110%)			
Nitrate-N	2.50			2.27	mg/L			91 (90%-110%)			
Sulfate	10.0			9.48	mg/L			94.8 (90%-110%)			
QC1205497352	MB										
Chloride			U	ND	mg/L					08/23/23	23:10
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205497355	634441001	PS									
Chloride	5.00	0.654		5.10	mg/L			88.9* (90%-110%)		08/24/23	02:21

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481584										
Fluoride	2.50	0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23	00:45
Nitrate-N	2.50	J 0.0707		2.29	mg/L		88.7*	(90%-110%)			
Sulfate	10.0	9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23	02:21
Batch	2481608										
QC1205497371	634145003 DUP										
Nitrite-N		0.000		0.000	mg/L	0	^	(+/-2.50)	HXC1	08/24/23	15:05
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)			
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23	20:43
Nitrate-N		10.9		11.0	mg/L	0.894	^	(+/-2.50)		08/24/23	15:05
Sulfate		37.6		37.5	mg/L	0.306	^	(+/-10.0)			
QC1205497369	LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23	23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)			
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205497368	MB										
Chloride			U	ND	mg/L					08/23/23	22:47
Fluoride			U	ND	mg/L						

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2481608										
Nitrate-N			U	ND	mg/L				HXC1	08/23/23	22:47
Sulfate			U	ND	mg/L						
QC1205497373 634145003 PS											
Nitrite-N	2.50	0.000		2.54	mg/L		101	(90%-110%)		08/24/23	15:36
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)			
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)		08/23/23	21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23	15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2482703										
QC1205499165 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23	22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Barium	0.0500			0.0522	mg/L		104	(80%-120%)			
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			1.96	mg/L		98	(80%-120%)			

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)	PRB	08/31/23	22:21
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0518	mg/L		104	(80%-120%)			
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)			
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23	08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23	22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)			
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)			
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)			
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)			
QC1205499164	MB										
Antimony			U	ND	mg/L					08/31/23	22:18
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Beryllium			U	ND	mg/L				PRB	08/31/23	22:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Thallium			U	ND	mg/L				PRB	08/31/23	22:18
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)			
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)			
Beryllium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Boron	0.100		1.90	2.08	mg/L		N/A	(75%-125%)		09/01/23	09:00
Cadmium	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23	22:36
Calcium	2.00		83.4	88.8	mg/L		N/A	(75%-125%)		09/01/23	09:00
Chromium	0.0500	U	ND	0.0518	mg/L		103	(75%-125%)		08/31/23	22:36
Cobalt	0.0500		0.00384	0.0554	mg/L		103	(75%-125%)			
Iron	2.00	U	ND	2.06	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND	0.0521	mg/L		102	(75%-125%)			
Magnesium	2.00		18.9	21.3	mg/L		N/A	(75%-125%)			
Manganese	0.0500		3.33	3.48	mg/L		N/A	(75%-125%)		09/01/23	09:00

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Molybdenum	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)	PRB	08/31/23	22:36
Potassium	2.00		3.52	5.59	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Sodium	2.00		20.7	23.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)			
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND	0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23	22:39
Arsenic	0.0500	U	ND	0.0508	mg/L	3.79	101	(0%-20%)			
Barium	0.0500		0.0268	0.0757	mg/L	5.49	97.8	(0%-20%)			
Beryllium	0.0500	U	ND	0.0506	mg/L	4.96	101	(0%-20%)			
Boron	0.100		1.90	2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23	09:02
Cadmium	0.0500	U	ND	0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23	22:39
Calcium	2.00		83.4	84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23	09:02
Chromium	0.0500	U	ND	0.0504	mg/L	2.88	101	(0%-20%)		08/31/23	22:39
Cobalt	0.0500		0.00384	0.0540	mg/L	2.65	100	(0%-20%)			
Iron	2.00	U	ND	2.00	mg/L	2.95	98.6	(0%-20%)			

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Lead	0.0500	U	ND	0.0493	mg/L	3.6	98.5	(0%-20%)	PRB	08/31/23	22:39
Lithium	0.0500	U	ND	0.0509	mg/L	2.35	99.9	(0%-20%)			
Magnesium	2.00		18.9	20.7	mg/L	2.55	N/A	(0%-20%)			
Manganese	0.0500		3.33	3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23	09:02
Molybdenum	0.0500	U	ND	0.0512	mg/L	2.82	102	(0%-20%)		08/31/23	22:39
Potassium	2.00		3.52	5.37	mg/L	4.12	92.4	(0%-20%)			
Selenium	0.0500	U	ND	0.0512	mg/L	3.53	102	(0%-20%)			
Sodium	2.00		20.7	22.6	mg/L	2.28	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0488	mg/L	3.06	97.5	(0%-20%)			
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			26.8	5.04	ug/L	6.03		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			95.1	20.6	ug/L	8.16		(0%-20%)		09/01/23	09:04
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		08/31/23	22:46

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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482703										
Calcium		4170		869	ug/L	4.2		(0%-20%)	PRB	09/01/23	09:04
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Cobalt		3.84	J	0.796	ug/L	3.56		(0%-20%)			
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		18900		3500	ug/L	7.29		(0%-20%)			
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23	09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23	22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		20700		3830	ug/L	7.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2482624										
QC1205499046	634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23	12:24

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2482624										
QC1205499045	LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)	JP2	08/25/23	11:58
QC1205499044	MB										
Mercury			U	ND	mg/L					08/25/23	11:56
QC1205499047	634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23	12:26
QC1205499048	634447002 SDILT										
Mercury		U	ND	U	ug/L	N/A		(0%-10%)		08/25/23	12:27
Solids Analysis											
Batch	2482655										
QC1205499077	634352015 DUP										
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A		CH6	08/25/23	10:10
QC1205499076	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23	10:10
QC1205499075	MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23	10:10
Spectrometric Analysis											
Batch	2481696										
QC1205497560	LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23	17:36
QC1205497559	MB										
Total Sulfide			U	ND	mg/L					08/24/23	17:36
QC1205497561	634441001 PS										
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23	17:37

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QC Summary

Workorder: 634444

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2481696										
QC1205497563	634447001	PS									
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)	JW2	08/24/23	17:46
QC1205497562	634441001	PSD									
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23	17:38
QC1205497564	634447001	PSD									
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23	17:47
Titration and Ion Analysis											
Batch	2482476										
QC1205498938	LCS										
Alkalinity, Total as CaCO3	50.0			50.2	mg/L		100	(90%-110%)	JW2	08/24/23	15:56
QC1205499028	LCSD										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L	0.991	101	(0%-20%)		08/24/23	15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 8, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634650

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
QC1205499056	634643001	DUP									
Chloride		2.56		2.56	mg/L	0.235		(0%-20%)	LXA2	08/24/23	23:40
Fluoride		2.34		2.35	mg/L	0.435		(0%-20%)			
Nitrate-N	J	0.0737	J	0.0724	mg/L	1.78	^	(+/-0.100)			
Sulfate		761		761	mg/L	0.0329		(0%-20%)		08/25/23	15:38
QC1205499055	LCS										
Chloride	5.00			4.61	mg/L		92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50			2.40	mg/L		96	(90%-110%)			
Nitrate-N	2.50			2.31	mg/L		92.4	(90%-110%)			
Sulfate	10.0			9.50	mg/L		95	(90%-110%)			
QC1205499054	MB										
Chloride			U	ND	mg/L					08/24/23	23:09
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205499057	634643001	PS									
Chloride	5.00	2.56		7.48	mg/L		98.4	(90%-110%)		08/25/23	00:11

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 634650

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482641										
Fluoride	2.50	2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23	00:11
Nitrate-N	2.50	J 0.0737		2.40	mg/L		92.9	(90%-110%)			
Sulfate	10.0	7.61		17.7	mg/L		101	(90%-110%)		08/25/23	16:09
Batch	2482649										
QC1205499060	634519001 DUP										
Chloride		1.63		1.64	mg/L	0.527		(0%-20%)	JLD1	08/25/23	01:21
Fluoride		U ND	U	ND	mg/L	N/A					
Nitrate-N		U ND	U	ND	mg/L	N/A					
Sulfate		44.9		44.7	mg/L	0.427		(0%-20%)		08/25/23	12:06
QC1205499059	LCS										
Chloride	5.00			4.86	mg/L		97.2	(90%-110%)		08/25/23	03:27
Fluoride	2.50			2.58	mg/L		103	(90%-110%)			
Nitrate-N	2.50			2.42	mg/L		96.9	(90%-110%)			
Sulfate	10.0			9.95	mg/L		99.5	(90%-110%)			
QC1205499058	MB										
Chloride			U	ND	mg/L					08/25/23	02:55
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2482649										
Sulfate			U	ND	mg/L				JLD1	08/25/23	02:55
QC1205499061 634519001 PS											
Chloride	5.00	1.63		6.55	mg/L		98.5	(90%-110%)		08/25/23	01:52
Fluoride	2.50	U	ND	2.54	mg/L		102	(90%-110%)			
Nitrate-N	2.50	U	ND	2.52	mg/L		101	(90%-110%)			
Sulfate	10.0	8.97		24.7	mg/L		157*	(90%-110%)		08/25/23	12:37
Metals Analysis - ICPMS											
Batch	2482707										
QC1205499175 LCS											
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	09/08/23	11:22
Arsenic	0.0500			0.0510	mg/L		102	(80%-120%)			
Barium	0.0500			0.0569	mg/L		114	(80%-120%)			
Beryllium	0.0500			0.0494	mg/L		98.8	(80%-120%)			
Boron	0.100			0.0988	mg/L		98.8	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			2.11	mg/L		106	(80%-120%)			
Chromium	0.0500			0.0485	mg/L		97	(80%-120%)			
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Iron	2.00			1.98	mg/L		99.2	(80%-120%)	PRB	09/08/23	11:22
Lead	0.0500			0.0508	mg/L		102	(80%-120%)			
Lithium	0.0500			0.0466	mg/L		93.2	(80%-120%)			
Magnesium	2.00			1.90	mg/L		94.8	(80%-120%)			
Manganese	0.0500			0.0485	mg/L		96.9	(80%-120%)			
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)			
Potassium	2.00			2.08	mg/L		104	(80%-120%)			
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)			
Sodium	2.00			1.97	mg/L		98.4	(80%-120%)			
Thallium	0.0500			0.0493	mg/L		98.6	(80%-120%)			
QC1205499174	MB										
Antimony			U	ND	mg/L					09/08/23	11:17
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cadmium			U	ND	mg/L				PRB	09/08/23	11:17
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205499176 634650001 MS											
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		09/08/23	13:21

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Arsenic	0.0500	U	ND	0.0551	mg/L		107	(75%-125%)	PRB	09/08/23	13:21
Barium	0.0500		0.0149	0.0690	mg/L		108	(75%-125%)			
Beryllium	0.0500	U	ND	0.0508	mg/L		102	(75%-125%)			
Boron	0.100		0.430	0.549	mg/L		N/A	(75%-125%)		09/08/23	11:34
Cadmium	0.0500	J	0.000679	0.0526	mg/L		104	(75%-125%)		09/08/23	13:21
Calcium	2.00		217	222	mg/L		N/A	(75%-125%)		09/08/23	11:34
Chromium	0.0500	U	ND	0.0505	mg/L		100	(75%-125%)		09/08/23	13:21
Cobalt	0.0500		0.0259	0.0776	mg/L		104	(75%-125%)			
Iron	2.00		0.136	2.16	mg/L		101	(75%-125%)			
Lead	0.0500	U	ND	0.0514	mg/L		103	(75%-125%)			
Lithium	0.0500		0.0221	0.0704	mg/L		96.6	(75%-125%)			
Magnesium	2.00		133	137	mg/L		N/A	(75%-125%)		09/08/23	11:34
Manganese	0.0500		49.9	51.3	mg/L		N/A	(75%-125%)		09/08/23	11:50
Molybdenum	0.0500	U	ND	0.0562	mg/L		112	(75%-125%)		09/08/23	13:21
Potassium	2.00		11.2	13.4	mg/L		N/A	(75%-125%)			

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Selenium	0.0500	U	ND	0.0554	mg/L		108	(75%-125%)	PRB	09/08/23	13:21
Sodium	2.00		43.6	46.1	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0505	mg/L		101	(75%-125%)			
QC1205499177	634650001 MSD										
Antimony	0.0500	U	ND	0.0526	mg/L	0.167	105	(0%-20%)		09/08/23	13:24
Arsenic	0.0500	U	ND	0.0552	mg/L	0.131	107	(0%-20%)			
Barium	0.0500		0.0149	0.0700	mg/L	1.5	110	(0%-20%)			
Beryllium	0.0500	U	ND	0.0509	mg/L	0.185	102	(0%-20%)			
Boron	0.100		0.430	0.530	mg/L	3.51	N/A	(0%-20%)		09/08/23	11:37
Cadmium	0.0500	J	0.000679	0.0533	mg/L	1.38	105	(0%-20%)		09/08/23	13:24
Calcium	2.00		217	222	mg/L	0.0188	N/A	(0%-20%)		09/08/23	11:37
Chromium	0.0500	U	ND	0.0513	mg/L	1.54	102	(0%-20%)		09/08/23	13:24
Cobalt	0.0500		0.0259	0.0786	mg/L	1.3	106	(0%-20%)			
Iron	2.00		0.136	2.20	mg/L	1.59	103	(0%-20%)			
Lead	0.0500	U	ND	0.0522	mg/L	1.56	104	(0%-20%)			
Lithium	0.0500		0.0221	0.0711	mg/L	0.982	98	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Magnesium	2.00	133		136	mg/L	0.591	N/A	(0%-20%)	PRB	09/08/23	11:37
Manganese	0.0500	49.9		51.7	mg/L	0.658	N/A	(0%-20%)		09/08/23	11:53
Molybdenum	0.0500	U	ND	0.0564	mg/L	0.314	113	(0%-20%)		09/08/23	13:24
Potassium	2.00	11.2		13.5	mg/L	0.441	N/A	(0%-20%)			
Selenium	0.0500	U	ND	0.0562	mg/L	1.52	110	(0%-20%)			
Sodium	2.00	43.6		46.9	mg/L	1.78	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0510	mg/L	0.921	102	(0%-20%)			
QC1205499178 634650001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium		14.9	J	2.93	ug/L	2.02		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron		86.1		19.1	ug/L	10.8		(0%-20%)		09/08/23	11:44
Cadmium		J	0.679	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30
Calcium		43400		8860	ug/L	2.09		(0%-20%)		09/08/23	11:44
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/08/23	13:30

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2482707										
Cobalt		25.9		5.46	ug/L	5.64		(0%-20%)	PRB	09/08/23	13:30
Iron		136	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		22.1	J	4.79	ug/L	8.29		(0%-20%)			
Magnesium		26700		5680	ug/L	6.41		(0%-20%)		09/08/23	11:44
Manganese		499		105	ug/L	5.59		(0%-20%)		09/08/23	11:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23	13:30
Potassium		11200		2280	ug/L	1.26		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		43600		9440	ug/L	8.17		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2483666										
QC1205500954	LCS										
Mercury	0.00200			0.00207	mg/L		103	(80%-120%)	AXS5	08/29/23	11:03
QC1205500952	MB										
Mercury			U	ND	mg/L					08/29/23	11:02
QC1205500956	634765001	MS									
Mercury	0.0200	U	ND	0.0207	mg/L		103	(75%-125%)		08/29/23	11:37

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2483666										
QC1205500957	634765001	MSD									
Mercury	0.0200	U	ND	0.0210	mg/L	1.82	105	(0%-20%)	AXS5	08/29/23	11:39
QC1205500958	634765001	SDILT									
Mercury		U	ND	ND	ug/L	N/A		(0%-10%)		08/29/23	11:41
Solids Analysis											
Batch	2484234										
QC1205502076	634643001	DUP									
Total Dissolved Solids			1270	1280	mg/L	0.94		(0%-5%)	CH6	08/29/23	16:03
QC1205502074	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23	16:03
QC1205502073	MB										
Total Dissolved Solids			U	ND	mg/L					08/29/23	16:03
Batch	2484583										
QC1205502645	634927001	DUP									
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A		CH6	08/30/23	15:42
QC1205502641	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/30/23	15:42
QC1205502642	LCSD										
Total Dissolved Solids	300			304	mg/L	1.32	101	(0%-5%)		08/30/23	15:42
QC1205502640	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/23	15:42
Spectrometric Analysis											
Batch	2482961										
QC1205499656	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23	10:42

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2482961										
QC1205499655	MB										
Total Sulfide			U	ND	mg/L				JW2	08/25/23	10:42
QC1205499657	634513005	PS									
Total Sulfide	0.400	U	ND	0.389	mg/L		96.4	(75%-125%)		08/25/23	10:48
QC1205499658	634513005	PSD									
Total Sulfide	0.400	U	ND	0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23	10:48
<hr/>											
Batch	2483779										
QC1205501209	LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23	12:54
QC1205501208	MB										
Total Sulfide			U	ND	mg/L					08/28/23	12:54
QC1205501210	634615002	PS									
Total Sulfide	0.400	U	ND	0.118	mg/L		29.4*	(75%-125%)		08/28/23	12:55
QC1205501212	634650011	PS									
Total Sulfide	0.400	U	ND	0.111	mg/L		27.7*	(75%-125%)		08/28/23	12:59
QC1205501211	634615002	PSD									
Total Sulfide	0.400	U	ND	0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23	12:55
QC1205501213	634650011	PSD									
Total Sulfide	0.400	U	ND	0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23	13:00
<hr/>											
Titration and Ion Analysis											
Batch	2486265										
QC1205505688	LCS										
Alkalinity, Total as CaCO3	50.0			51.7	mg/L		103	(90%-110%)	JW2	09/01/23	10:39

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis										
Batch	2486265									
QC1205505709	LCS									
Alkalinity, Total as CaCO3	15.0		15.1	mg/L		101	(90%-110%)	JW2	09/01/23	10:41
QC1205506026	LCSD									
Alkalinity, Total as CaCO3	50.0		51.5	mg/L	0.388	103	(0%-20%)		09/01/23	10:40
QC1205506194	LCSD									
Alkalinity, Total as CaCO3	15.0		15.4	mg/L	1.97	103	(0%-20%)		09/01/23	10:42

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
B											
The target analyte was detected in the associated blank.											
e											
5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes											
J											
See case narrative for an explanation											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 634768**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2483979

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2483978

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205501591	Method Blank (MB) ICP-MS
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768011

(BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634768003 (BRA-BRGWC-27I), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634768							
	003	005	006	007	008	011	012	013
Boron	20X	20X	20X	20X	1X	20X	10X	20X
Calcium	20X	1X	20X	20X	20X	1X	10X	20X
Magnesium	1X	1X	1X	1X	1X	1X	10X	1X
Manganese	1X	1X	1X	20X	20X	1X	1X	20X
Sodium	1X	1X	1X	1X	20X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483667

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205500963	Method Blank (MB)CVAA

1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483105

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
1205499910	Method Blank (MB)
1205499911	Laboratory Control Sample (LCS)
1205499912	634768007(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205499913	634768007(BRA-BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499912 (BRA-BRGWC-29IDUP), 1205499913 (BRA-BRGWC-29IPS), 634768001 (BRA-APBCD-FD-03), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I) and 634768007 (BRA-BRGWC-29I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768					
	001	003	004	005	006	007
Chloride	10X	1X	10X	1X	25X	1X
Sulfate	10X	10X	10X	20X	25X	25X

Miscellaneous Information

Manual Integrations

Samples 634768001 (BRA-APBCD-FD-03) and 634768004 (BRA-BRGWC-45) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2483150

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634768011 (BRA-BRGWC-52I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768			
	008	011	012	013

Chloride	40X	1X	1X	1X
Fluoride	1X	2X	1X	1X
Sulfate	40X	10X	200X	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484591

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
1205502654	Method Blank (MB)
1205502655	Laboratory Control Sample (LCS)
1205502656	634511009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205502656 (Non SDG 634511009DUP)	5.63* (0%-5%)

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484594

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I

634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634768008 (BRA-PZ-51D) and 634768012 (BRA-BRGWC-47).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483133

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768004	BRA-BRGWC-45
634768006	BRA-PZ-74I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499946	Method Blank (MB)
1205499947	Laboratory Control Sample (LCS)
1205499950	634768004(BRA-BRGWC-45) Post Spike (PS)
1205499951	634768004(BRA-BRGWC-45) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205499950 (BRA-BRGWC-45PS)	65.8* (75%-125%)
	1205499951 (BRA-BRGWC-45PSD)	67.5* (75%-125%)

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768003	BRA-BRGWC-27I
634768005	BRA-PZ-75I
634768007	BRA-BRGWC-29I
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)

	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486267

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768010 (BRA-APBCD-EB-06), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 634650**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482707

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482706

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499174	Method Blank (MB) ICP-MS
1205499175	Laboratory Control Sample (LCS)
1205499178	634650001(BRA-PZ-51IL) Serial Dilution (SD)
1205499176	634650001(BRA-PZ-51IS) Matrix Spike (MS)
1205499177	634650001(BRA-PZ-51ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 634650005 (BRA-PZ-63I), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	634650									
	001	002	004	005	006	007	009	010	011	013
Beryllium	1X	5X	1X	10X	1X	1X	5X	10X	5X	1X
Boron	5X	5X	10X	10X	1X	5X	5X	10X	5X	10X
Calcium	5X	5X	10X	10X	10X	5X	5X	10X	5X	1X
Cobalt	1X	5X	10X	1X	1000X	1X	5X	1X	5X	1X
Iron	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	5X	5X	10X	10X	10X	1X	5X	10X	5X	1X
Manganese	100X	100X	1000X	10X	1000X	5X	100X	10X	100X	1X
Potassium	1X	1X	10X	1X	10X	5X	1X	1X	5X	1X
Sodium	1X	5X	10X	10X	10X	5X	5X	10X	5X	1X

Analyte	634650
	014
Beryllium	5X
Boron	5X
Calcium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	5X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2483666

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2483665

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

634650001

Client Sample Identification

BRA-PZ-51I

634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205500952	Method Blank (MB)CVAA
1205500954	Laboratory Control Sample (LCS)
1205500958	634765001(NonSDGL) Serial Dilution (SD)
1205500956	634765001(NonSDGS) Matrix Spike (MS)
1205500957	634765001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information

Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205500956 (Non SDG 634765001MS), 1205500957 (Non SDG 634765001MSD) and 1205500958 (Non SDG 634765001SDILT).

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650006	BRA-PZ-64I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650			
	001	002	004	006
Chloride	1X	5X	10X	20X
Sulfate	100X	100X	200X	200X

Miscellaneous Information

Manual Integrations

Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I) and 634650004 (BRA-PZ-60I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2482649

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650005	BRA-PZ-63I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499058	Method Blank (MB)
1205499059	Laboratory Control Sample (LCS)
1205499060	634519001(NonSDG) Sample Duplicate (DUP)
1205499061	634519001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205499061 (Non SDG 634519001PS)	157* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650						
	005	007	009	010	011	013	014
Chloride	1X	25X	5X	1X	5X	1X	5X
Sulfate	25X	25X	200X	25X	200X	5X	100X

Miscellaneous Information

Manual Integrations

Samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I

634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2484583

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205502640	Method Blank (MB)
1205502641	Laboratory Control Sample (LCS)
1205502642	Laboratory Control Sample Duplicate (LCSD)
1205502645	634927001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634650009 (BRA-APBCD-FD-01), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650014	BRA-PZ-50D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2486265

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205505688	Laboratory Control Sample (LCS)
1205505709	Laboratory Control Sample (LCS)
1205506026	Laboratory Control Sample Duplicate (LCSD)
1205506194	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650008 (BRA-APBCD-FB-02), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650012 (BRA-APBCD-EB-04), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 634444**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2482703

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499164	Method Blank (MB)
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S) and 634444006 (BRA-PZ-61I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634444		
	004	005	006
Boron	20X	10X	5X
Calcium	20X	1X	5X
Magnesium	20X	1X	5X
Manganese	20X	1X	500X
Sodium	1X	1X	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499044	Method Blank (MB)CVAA
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481584

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634444004 (BRA-BRGWC-30I) and 634444005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444	
	004	005
Sulfate	100X	25X

Miscellaneous Information

Manual Integrations

Samples 634444003 (BRA-BRGWA-23S) and 634444005 (BRA-BRGWC-32S) were manually integrated to

correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2481608

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205497371 (Non SDG 634145003DUP), 1205497373 (Non SDG 634145003PS) and 634444006 (BRA-PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444
	006
Chloride	5X
Sulfate	200X

Sample Re-analysis

Sample 634444007 (BRA-APBCD-FB-01) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634444004 (BRA-BRGWC-30I) and 634444006 (BRA-PZ-61I).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444001	BRA-PZ-57I
634444002	BRA-PZ-65I
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2482476

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCSD was used in place of matrix QC due to limited sample volume. 634444003 (BRA-BRGWA-23S), 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S), 634444006 (BRA-PZ-61I) and 634444007 (BRA-APBCD-FB-01).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____



Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID <i>*For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments		
						Yes, please supply isotopic info.	(7) Known or Possible Hazards	Total number of containers	Metals *	Total, Carb. & Benth. Atk	EPA 300, SM 2540C	EPA 6020, 6010, 7470		Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500
BRA-PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-59I	08/23/23	1140	G	N	WG			1							
BRA-PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-68D	08/23/23	1608	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FB-02	08/23/23	1450	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	8:41 AM
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	12:43 PM

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive, TSCA Regulated, PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals, Pb = Lead
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA, 30308
 Collected By: *J. Bennett ACC*

Phone # 404-506-7116
 Fax # _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radiative (f) Yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Biocarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9115, 9320	Sulfide SM 4500	NI	NI	Preservative Type (6)	Comments
BRA-BR6WC-50	08/23/23	1100	G	N	WG			8	✓	✓	✓	✓					Note: extra sample is required for sample specific QC
BRA-APBCD-EB-04	08/23/23	1135	G	N	WG			8	✓	✓	✓	✓					Task Code: BRA-CCR-ASSMT-2023S2
BRA-P2-44	08/23/23	1640	G	N	WG			8	✓	✓	✓	✓					
BRA-P2-50D	08/23/23	1230	G	N	WG			8	✓	✓	✓	✓					
BRA-																	
BRA-																	
BRA-																	
BRA-																	
BRA-																	
BRA-																	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	0841	<i>[Signature]</i>	8/24/23	891
<i>[Signature]</i>	8/24/23	1249	<i>[Signature]</i>	8/24/23	1253

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Mo,Se,Ti,Fe,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Seiment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

TSCA Regulated
 MR = Misc. RCRA metals
 PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>GPCC</u>		SDG/AR/COC/Work Order:	
Received By: <u>EG</u>		Date Received: <u>8-24-23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <u>cooler 1-3</u> <u>cooler 3-3</u> <u>cooler 2-3</u> <u>cooler 4-2</u> <u>cooler 5-3</u>	
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM</u> mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria		Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See coolers above & below for temps</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR3-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (if yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
			Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>cooler 6-1</u> <u>cooler 7-2</u> <u>cooler 8-4</u> <u>cooler 9-1</u>			

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2



Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

- BRA-P2-511
- BRA-P2-591
- BRA-BRGWC-355
- BRA-BRGWC-365
- BRA-APE-FB-07
- BRA-P2-601
- BRA-P2-581
- BRA-P2-631
- BRA-BRGWC-385
- BRA-P2-641
- BRA-P2-68D
- BRA-APBUD-FD-02
- BRA-P2-50D
- BRA-BRGWC-50
- BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

ET

Relog for Radium

Page _____ of _____

Project # _____

GEL Quote # _____

COC Number (if) _____

PO Number _____

Client Name: GA Power

GEL Work Order Number: _____

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collect By: ACC

Send Results To: SCS & Geosyntec Contacts

Sample ID

*For compatibilities - indicate start and stop date/time

Sample ID	Date Collected (mm/dd/yy)	*Time Collected (Military)	QC Code (b)	Field Filtered (b)	Sample Matrix (d)	Radonactive (f) (yes, please supply isotopic info)	(7) Known or possible isotopes	Total number of containers	Preservative Type (e)	Comments
BRA-APBCD-FD-03	08/24/23		G	N	WG			8		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-E3-05	08/24/23	0955	G	N	WQ			8		
BRA-BRGWL-27I	08/24/23	1225	G	N	WQ			8		
BRA-BRGWL-45	08/24/23	1206	G	N	WQ			8		
BRA-PZ-75I	08/24/23	1051	G	N	WQ			8		
BRA-PZ-74I	08/24/23	1415	G	N	WQ			8		
BRA-BR6WC-29I	08/24/23	1520	G	N	WQ			8		
BRA-PZ-51D	08/24/23	1100	G	N	WQ			8		
BRA-APBCD-FB-03	08/24/23	1255	G	N	WQ			8		
BRA-APBCD-E3-06	08/24/23	1400	G	N	WQ			8		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23			

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: LC of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mn, Ni, Se, Ti, Fe, Ni, Mo, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other

Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with L & Y - for yet the sample was field filtered in - N - for sample was not field filtered

4) Matrix Codes: WD=Drinking Water, WC=Cooling Water, WS=Surface Water, WW=Waste Water, WL=Lachute, SO=Soil, SE=Soil, SF=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: HA = Hydrofluoric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Acetic Acid, BX = Hexane, SF = Sodium Thiosulfate. If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive TSCA Regulated FCB = polychlorinated biphenyls	LW = Listed Waste (F, K, P and U listed wastes) Waste code(s): _____	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

034768 & 034781

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analyticals
 Chain of Custody and Analytical Request
 GEL Project Manager: Erik Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Project # _____
 GEL Quota # _____
 COC Number (1) _____
 PO Number _____

GEL Work Order Number: _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

Phone # 404-506-7116
 Fax # _____

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID <small>* For comparison - indicate start and stop date/time</small>	Date Collected (mm/dd/yyyy)	Time Collected (Military)	QC Code in Matrix (3)	Field Filtered (4)	Sample Matrix (5)	Total number of containers		Should this sample be considered: (6) Yes, please supply (provide info)	(7) Known or (8) Suspect	Comments
						Matrix	QA			
BRA- BR6WC-52I	08/24/23	1305	G	N	WG	3	3			Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
BRA- BR6WC-47	08/24/23	1445	G	N	WG	3	3			
BRA- BR6WC-25I	08/24/23	1647	G	N	WG	3	3			
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										
BRA-										

Send Results To: SCS & Geosynce Contacts

Task Code: BRA-CCR-ASSMT-2023S2

Additional Remarks: * Metals: B, Co, Sb, Ba, Be, Cd, Cr, Cu, Pb, Li, Mn, Se, Ti, Fe, Mg, Mo, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Prices? [] Yes [] No Cooler Temp: _____ °C
 Sample Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other:

Chain of Custody Signatures

Requested By (Signed)	Date	Time	Date	Time
<i>[Signature]</i>	8/24/23			

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: [] Yes [X] No
 Select Deliverable: [] C of A [] QC Summary [] Level 1 [] Level 2 [] Level 3 [] Level 4
 Additional Remarks: * Metals: B, Co, Sb, Ba, Be, Cd, Cr, Cu, Pb, Li, Mn, Se, Ti, Fe, Mg, Mo, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Prices? [] Yes [] No Cooler Temp: _____ °C
 Sample Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRP)

1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EM = Equipment Blank, MS = Matrix Spike Sample, MSP = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Filters: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4) Matrix Codes: W = Drinking Water, WC = Groundwater, WS = Surface Water, WTS = Treated Water, WTS-Sediment, SO = Soil, SPS = Sediment, SL = Sludge, WQ = Water Quality Control Matrix
 5) Sample Analysis Requested: Analytical method requested (e.g. H4603, 6010B, 4710A) and number of containers provided for each (e.g. 2/603 - 3, 4010B/4710A - 1).
 6) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SB = Sodium Hydroxide, SA = Sulfuric Acid, AA = Acetic Acid, BX = Hexose, ST = Sodium Thiosulfate. The preservative is added = have field blank
 7) KNOWN OR POSSIBLE HAZARDS

Characteristics Hazards
 FL = Flammable/ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

Other
 OT = Other / Unknown
 (i.e. High/low pH, asbestos, beryllium, irritants, other
 misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 1 of 2
 Project # _____
 GEL Quote #: _____
 COC Number 0: _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC

Sample ID <i>* For composites - indicate start and stop date/time</i>	Date Collected (mm/dd/yy)	*Time Collected (Military/abun)	QC Code (G, N, WG)	Field		Sample Matrix (e)	Total number of containers	Should this sample be considered:		Preservative Type (e)	Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2
				Filtered	N			Yes, please supply isotopic info.	(?) Known or possible hazards		
BRA-APBCD-FD-03	08/24/23	0955	G	N	WG		8				
BRA-APBCD-EB-05	08/24/23	1225	G	N	WG		8				
BRA-BRGWC-27I	08/24/23	1206	G	N	WG		8				
BRA-BRGWC-45	08/24/23	1051	G	N	WG		8				
BRA-PZ-75I	08/24/23	1415	G	N	WG		8				
BRA-PZ-74I	08/24/23	1520	G	N	WG		8				
BRA-BRGWC-29J	08/24/23	1100	G	N	WG		8				
BRA-PZ-51D	08/24/23	1255	G	N	WG		8				
BRA-APBCD-FB-03	08/24/23	1400	G	N	WG		8				
BRA-APBCD-EB-06	08/24/23		G	N	WG		8				

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	1730
<i>[Signature]</i>	08/25/23	<i>[Signature]</i>	08/24/23	0857
				3

Chain of Custody Signatures
 TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SQ=Soil, SF=Sediment, ST=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) ~~KNOWN OR POSSIBLE HAZARDS~~
 Characteristic Hazards
 FL = Flammable/Ignitable
 LW = Listed Waste (F, K, P and U-listed wastes.)
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, tritium, other misc. health hazards, etc.)
 Description:

*cooler 1-4°
 cooler 2-4°
 cooler 3-1°
 cooler 4-1°
 cooler 5-3°*

Please provide any additional details below regarding handling and/or disposal concerns: (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (C): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*

GEL Work Order Number: Phone # 404-506-7116
 Fax # _____

Sample Analysis Requested (S) (Fill in the number of containers for each test)
 ← Preservative Type (6)
 Comments
 Note: extra sample is required for sample specific QC
 Task Code: BRA-CCR-ASSMT-2023S2

Sample ID	*Date Collected (mm/dd/yyyy)	*Time Collected (Military (hhmm))	QC Code (S)	Field Filtered (S)	Sample Matrix (S)	Total number of containers		Should this sample be considered:	Yes, please supply isotopic info.	(3) Known or possible hazards	Total number of containers	GEL 300, TDS, NO3	Total Carb. & Bland Alk SM 2320B	Metals * BPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	SM 4500	Comments	
						8	8											
BRA-BR6WC-52E	08/24/23	1305	G	N	WG	8	8											
BRA-BR6WC-47	08/24/23	1445	G	N	WG	8	8											
BRA-BR6WC-25J	08/24/23	1647	G	N	WG	8	8											
BRA-																		
BRA-																		
BRA-																		
BRA-																		
BRA-																		
BRA-																		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	1730
<i>[Signature]</i>	8/25/23	<i>[Signature]</i>	8/25/23	0857

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Clear Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicates with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WTW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SI=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive
 Listed Waste: (F, K, P and U-listed wastes)
 Waste code(s): _____
 TSCA Regulated: _____
 PCB = Polychlorinated biphenyls
 RCRA Metals: _____
 As = Arsenic, Hg = Mercury, Se = Selenium
 Ba = Barium, Ag = Silver
 Cd = Cadmium, MR = Misc. RCRA metals
 Cr = Chromium, Pb = Lead
 Other: _____
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

*COOLERS 1-4
 COOLERS 2-4
 COOLERS 3-1
 COOLERS 4-1
 COOLERS 5-3*

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ET

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634789
634768
634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPPC			SDG/AR/COC/Work Order:		
Received By: EG			Date Received: 8/25/23 0857		
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-4° cooler 3-1° cooler 5-3° cooler 2-4° cooler 4-1°		
Suspected Hazard Information			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria			Comments/Qualifiers (Required for Non-Conforming Items)		
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Temperature Device Serial #: IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): containers BRA-P2-751, BRA-BRGWC-271, BRA-P2-53D, & BRA-BRGWC-291 preserved with NaOH/Zinc Acetate did not hold preservation					

PM (or PMA) review: Initials **AT** Date **8/28/23** Page **1** of **1**

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Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: J. Perrin ACC
 Send Results To: SCS & Geosyntec Contacts
 *For composites - indicate start and stop date/time

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments		
						Yes, please supply isotopic info.)	(7) Known or possible hazards	Total number of containers	Metals *	EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500		Preservative Type (6)	
BRA-P2-57J	08/21/23	1755	G	N	WG			1							
BRA-P2-65I	08/21/23	1745	G	N	WG			1							
BRA-BRCWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓				
BRA-BR6WC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓				
BRA-BR6WC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓				
BRA-P2-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓				
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓				
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	8/23/23	0812	<u>[Signature]</u>	8/23/23	8:35
<u>[Signature]</u>	8/23/23	100	<u>[Signature]</u>	8/23/23	1300

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD-Drinking Water, WG-Groundwater, WS-Surface Water, WW-Waste Water, WL-Leachate, SO-Soil, SE-Sediment, SL-Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

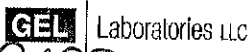
7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

63444 634643
 63448 634447
 634443 634450
 634441 634444
 634446



SAMPLE RECEIPT & REVIEW FORM

Client: CDD
 Received By: MVH
 SDG/AR/COC/Work Order:
 Date Received: 8/23/2023
 Carrier and Tracking Number: COOLR2-3, COOLR4-1, COOLR1-2, COOLR3-1, COOLR6-1, COOLR5-2
 FedEx Express, FedEx Ground, UPS, Field Services, Courier, Other

Suspected Hazard Information
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 A) Shipped as a DOT Hazardous? Yes No
 Hazard Class Shipped: UN#: IF UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 B) Did the client designate the samples to be received as radioactive? Yes No
 COC notation or radioactive stickers on containers equal client designation.
 C) Did the RSO classify the samples as radioactive? Yes No
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous? Yes No
 COC notation or hazard labels on containers equal client designation.
 E) Did the RSO identify possible hazards? Yes No
 If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample IDs and containers affected: <u>VOA-P2-G11, BRA-BREW-A-51, BRA-BREW-A-23S,</u>
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-349, BRA-BREW-C-30I Sulfide
 Samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 26, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 634781,634446 and 634652

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
634446002	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634446003	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634446004	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634446005	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634446006	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634652001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634652002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634652003	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634652004	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634652005	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43
634652006	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634652007	BRA-APBCD-FB-02	Ground Water	23/08/23 14:50	24/08/23 12:43
634652008	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634652009	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634652010	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634652011	BRA-APBCD-EB-04	Ground Water	23/08/23 11:35	24/08/23 12:43



634652012	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634652013	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634781001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634781002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634781003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634781004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634781005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634781006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634781007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634781008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634781009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634781010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634781011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634781012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634781013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

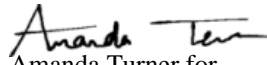
Not Applicable

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
Calculation	22-SEP-2023
Calculation	26-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 903.1 Modified	21-SEP-2023
EPA 903.1 Modified	26-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	19-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634652 GEL Work Order: 634652

The Qualifiers in this report are defined as follows:

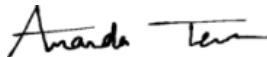
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634781 GEL Work Order: 634781

The Qualifiers in this report are defined as follows:

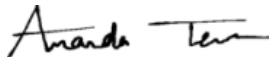
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 634446 GEL Work Order: 634446

The Qualifiers in this report are defined as follows:

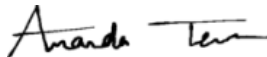
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634652**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2483038

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2483035

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D

634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499785	Method Blank (MB)
1205499786	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499787	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2483037

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499794	Method Blank (MB)
1205499795	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499796	634652001(BRA-PZ-51I) Matrix Spike (MS)
1205499797	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205499796 (BRA-PZ-51IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634781**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2484347

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2483519

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I

634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500580	Method Blank (MB)
1205500581	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500582	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205500580 (MB)	Radium-228	Result: 1.94 pCi/L > MDA: 1.46 pCi/L <= RDL: 3.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2483512

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500561	Method Blank (MB)

1205500562	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500563	634781003(BRA-BRGWC-27I) Matrix Spike (MS)
1205500564	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205500563 (BRA-BRGWC-27IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634446**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis

Samples were re-prepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

Project # _____ of _____
 GEL Quote #: _____
 COC Number (U): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *D. Berisford* ACC
 Phone # 404-506-7116
 Fax # _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (b)	Field Filtered (a)	Sample Matrix (c)	Radioactive (if yes, please supply isotopic info.)	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)						Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2			
								Total number of containers	(?) Known or possible Hazards	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Biomb Air SM 230B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500	NI	IN
BRA-PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓	✓					
BRA-PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓	✓					
BRA-PZ-59I	08/23/23	1140	G	N	WG			1									
BRA-PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓	✓					
BRA-PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓	✓					
BRA-PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓	✓					
BRA-PZ-68D	08/23/23	1608	G	N	WG			8	✓	✓	✓	✓					
BRA-APBCD-FB-02	08/23/23	1450	G	N	WG			8	✓	✓	✓	✓					
BRA-APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓	✓					
BRA-APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓	✓					

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	8:41:33 PM
<i>[Signature]</i>	08/24/23	<i>[Signature]</i>	08/24/23	12:43

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

Characteristics Hazards	Listed Waste	Other
FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
TSCA Regulated PCB = Polychlorinated biphenyls		

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Send Results To: SCS & Geosyntec Contacts
 Collected By: *J. Burfield ACC*

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (2)	Sample Matrix (4)
BRA-BR6WC-50	08/23/23	1100	G	N	WG
BRA-APBCD-EB-04	08/23/23	1135	G	N	WG
BRA-P2-44	08/23/23	1640	G	N	WG
BRA-P2-50D	08/23/23	1230	G	N	WG
BRA-					
BRA-					
BRA-					
BRA-					
BRA-					
BRA-					

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	0841	<i>[Signature]</i>	8/24/23	0841
<i>[Signature]</i>	8/24/23	1249	<i>[Signature]</i>	8/24/23	1243

Chain of Custody Signatures

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Ni, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: EA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e., High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

634448 634443
 634652 634650
 634649
~~64~~ 634648 634615

Client: <u>6 PCC</u>		SDG/AR/COC/Work Order:				
Received By: <u>EG</u>		Date Received: <u>8.24.23</u>				
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-3 cooler 3-3 cooler 2-3 cooler 4-2 cooler 8, 3				
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.				
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___				
B) Did the client designate the samples are to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.				
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM</u> mR/Hr Classified as: Rad 1 Rad 2 Rad 3				
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.				
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____				
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt	
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See coolers above & below for temps</u>	
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: <u>IRE 23</u> Secondary Temperature Device Serial # (If Applicable): _____	
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6	Samples requiring chemical preservation at proper pH?	/			Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See continuation form</u>	
7	Do any samples require Volatile Analysis?	/			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)	
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)	
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___	
8	Samples received within holding time?	/			Sample ID's and tests affected:	
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:	
10	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)	
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/				
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):						
cooler 6-1 cooler 7-2 cooler 8-4 cooler 9-1						

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2



Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-S11

BRA-P2-591

BRA-BRGWC-353

BRA-BRGWC-365

BRA-APE-FB-07

BRA-P2-601

BRA-P2-581

BRA-P2-631

BRA-BRGWC-385

BRA-P2-641

BRA-P2-68D

BRA-AP BLD-FD-02

BRA-P2-50D

BRA-BRGWC-50

BRA-APE-FD-05

↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

634768 634781

Page: 1 of 2
 Project # _____
 GEL Quota #: _____
 COC Number (C): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC
 Send Results To: SCS & Geosyntec Contacts
 GEL Work Order Number: _____
 Phone # 404-506-7116
 Fax # _____

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military/24hr)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered:		Sample Analysis Requested (d) (Fill in the number of containers for each test)						Comments				
						Yes, please supply isotopic info.)	(?) Known or possible hazards	CL P, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Benth Air SM 2209	Metals * HPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	Preservative Type (6)					
BRA-APBCD-FD-03	08/24/23	0955	G	N	WG			8	8	8	8	8						
BRA-APBCD-EB-05	08/24/23	1225	G	N	WG			8	8	8	8	8						
BRA-BRGWC-27I	08/24/23	1206	G	N	WG			8	8	8	8	8						
BRA-BRGWC-45	08/24/23	1051	G	N	WG			8	8	8	8	8						
BRA-P2-75I	08/24/23	1415	G	N	WB			8	8	8	8	8						
BRA-P2-74I	08/24/23	1520	G	N	WB			8	8	8	8	8						
BRA-BR6WC-29I	08/24/23	1100	G	N	WB			8	8	8	8	8						
BRA-P2-51D	08/24/23	1255	G	N	WB			8	8	8	8	8						
BRA-APBCD-FD-03	08/24/23	1400	G	N	WB			8	8	8	8	8						

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. _____ 08/24/23 1730
 2. _____ 08/24/23 0855
 3. _____ 08/24/23 0857
 TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sh, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other
 cooler 1-4°
 cooler 2-4°
 cooler 3-1°
 cooler 4-1°
 cooler 5-3°

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, ED = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SF=Sludge, SI=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s):
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 TSCA Regulated
 PCB=Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, add matrices, etc.)

GEL Work Order Number: _____

Client Name: GA Power
 Phone # 404-506-7116
 Fax # _____

Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: ACC

Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		Total number of containers	Sample Analysis Requested (6) (Fill in the number of containers for each test)				Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S2	
						Yes, please supply isotopic info)	(3) Known or possible hazards		CI, P, SO4, TDS, NO3 BPA 300, SM 2540C	Total, Carb. & Biogas Air SM 2320B	Metals * BPA 602C, 6010, 7479 Radium 226 & 228 SW-846 9315, 9320 Solids SM 4500	N		Z
BRA- BR6WC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓		
BRA- BR6WC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓		
BRA- BR6WC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures

Reinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	1730
<i>[Signature]</i>	8/24/23	<i>[Signature]</i>	8/24/23	0857

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, IL, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SP=Soil, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: EA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HA = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristics Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

COOKER 1-4
 COOKER 2-4
 COOKER 3-1
 COOKER 4-1
 COOKER 5-3

ET

634784 634789
634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPOC</u>			SDG/AR/COC/Work Order:		
Received By: <u>EG</u>			Date Received: <u>8/25/23 0857</u>		
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other <u>cooler 1-4° cooler 3-1° cooler 5-3°</u> <u>cooler 2-4° cooler 4-1°</u>		
Suspected Hazard Information			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria			Comments/Qualifiers (Required for Non-Conforming Items)		
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See above</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR6-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u>See below</u>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected: <u>COC says BRA-P2-74I bottles say BRA-P2-74</u>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>containers BRA-P2-751, BRA-BRGWC-271, BRA-P2-53D, & BRA-BRGWC-291 preserved with NaOH/Zinc Acetate did not hold preservation</u>					

PM (or PMA) review: Initials AT Date 8/26/23 Page 1 of 1

034444 034440

Page: _____ of _____

Project # _____

GEL Quote #: _____

COC Number (0): _____

PO Number: _____

Client Name: GA Power

Project/Site Name: Plant Branch Ash Ponds - BCD

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Bernhardt ACC

Send Results To: SCS & Geosyntec Contacts

GEL Work Order Number: _____

Phone # 404-506-7116

Fax # _____

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (0)	Field Filtered (0)	Sample Matrix (0)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Preservative Type (6)			
						(7) Known or isotopic info. (If yes, please supply info.)	(7) Possible Hazards	Total number of containers	CL, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Heavy Air SM 230B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		Sulfide SM 4500	Comments	
BRA-PZ-57I	08/21/23	1755	G	N	WG			1								
BRA-PZ-65I	08/21/23	1745	G	N	WG			1								
BRA-BRCWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓					
BRA-BR6WC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓					
BRA-BR6WC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓					
BRA-PZ-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓					
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓					
BRA-																
BRA-																
BRA-																

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/23/23	0842	<i>[Signature]</i>	8/23/23	0835
<i>[Signature]</i>	8/23/23	100	<i>[Signature]</i>	8/23/23	1300

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

TSCA Regulated
PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

63444 634443
 634448 634447
 634443 634450
 634441 634444
 634446

Client: ECOP SDG/AR/COC/Work Order: ET
 Received By: MVH Date Received: 8-23-2023
 Carrier and Tracking Number: COOPER-2-3°C COOPER-4-1°C COOPER-6-1°C
COOPER-1-2°C COOPER-3-1°C COOPER-5-2°C

Suspected Hazard Information: Yes No
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 A) Shipped as a DOT Hazardous? Yes No
 B) Did the client designate the samples are to be received as radioactive? Yes No
 C) Did the RSO classify the samples as radioactive? Yes No
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 00 CPM/AmR/hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous? Yes No
 E) Did the RSO identify possible hazards? Yes No
 If D or E is yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>M02A-D2-G11, BRA-BREW-A-51, BRA-BREW-A-235,</u> If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (if unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-D2-13S, BRA-BREW-A-2S, BRA-BREW-A-6S, BRA-BREW-C-32S, BRA-BREW-A-2I, BRA-BREW-C-37S, BRA-BREW-C-34S, BRA-BREW-C-30I Sulfide
Samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D"
"BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" "BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648
and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
"BRA-BRGWC-32S" "BRA-BRGWC-30I" "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

Office Main: 843.556.8171 | Fax: 843.766.1178

E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[gellaboratories.com]



[linkedin.com]

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List of current GEL Certifications as of 26 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWA-23S
 Sample ID: 634446002
 Matrix: WG
 Collect Date: 22-AUG-23
 Receive Date: 23-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.10	+/-1.08	1.79	+/-1.12	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.16	+/-1.15	1.79	+/-1.21		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.06	+/-0.386	0.385	+/-0.455	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	84.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-30I

Project: GPCC00101

Sample ID: 634446003

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.97	+/-1.28	2.00	+/-1.38	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.71	+/-1.32	2.00	+/-1.42		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.736	+/-0.333	0.380	+/-0.351	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-32S

Project: GPCC00101

Sample ID: 634446004

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.60	+/-1.14	1.80	+/-1.21	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.33	+/-1.19	1.80	+/-1.26		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.729	+/-0.346	0.390	+/-0.363	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-61I

Project: GPCC00101

Sample ID: 634446005

Client ID: GPCC001

Matrix: WG

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.515	+/-0.660	1.12	+/-0.672	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.868	+/-0.703	1.12	+/-0.718		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.353	+/-0.244	0.325	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	85.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-01

Project: GPCC00101

Sample ID: 634446006

Client ID: GPCC001

Matrix: WQ

Collect Date: 22-AUG-23

Receive Date: 23-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.142	+/-0.978	1.81	+/-0.979	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.595	+/-1.01	1.81	+/-1.01		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.454	+/-0.236	0.217	+/-0.248	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-511
 Sample ID: 634652001
 Matrix: WG
 Collect Date: 23-AUG-23
 Receive Date: 24-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.20	+/-1.36	1.62	+/-1.73	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.22	+/-1.45	1.62	+/-1.81		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.02	+/-0.480	0.512	+/-0.520	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	82.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-58I

Project: GPCC00101

Sample ID: 634652002

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.77	+/-0.844	1.08	+/-0.956	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.71	+/-1.11	1.08	+/-1.27		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.95	+/-0.714	0.786	+/-0.834	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-60I

Project: GPCC00101

Sample ID: 634652003

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.65	+/-1.24	1.75	+/-1.41	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.48	+/-1.38	1.75	+/-1.58		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.83	+/-0.611	0.548	+/-0.717	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	76.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-63I

Project: GPCC00101

Sample ID: 634652004

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.44	+/-1.16	1.85	+/-1.21	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.31	+/-1.25	1.85	+/-1.32		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.873	+/-0.483	0.568	+/-0.510	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	75.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-64I

Project: GPCC00101

Sample ID: 634652005

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.700	+/-1.10	1.90	+/-1.11	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.877	+/-1.13	1.90	+/-1.15		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.177	+/-0.275	0.491	+/-0.278	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	77.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-68D

Project: GPCC00101

Sample ID: 634652006

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.837	+/-0.870	1.44	+/-0.896	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.62	+/-0.966	1.44	+/-1.00		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.786	+/-0.419	0.483	+/-0.447	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	88.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-02

Project: GPCC00101

Sample ID: 634652007

Client ID: GPCC001

Matrix: WQ

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.431	+/-0.731	1.30	+/-0.739	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.720	+/-0.801	1.30	+/-0.811		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.289	+/-0.327	0.532	+/-0.332	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	71.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-01

Project: GPCC00101

Sample ID: 634652008

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.29	+/-1.46	2.46	+/-1.50	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	2.39	+/-1.54	2.46	+/-1.59		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.09	+/-0.466	0.364	+/-0.509	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	72.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-02

Project: GPCC00101

Sample ID: 634652009

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.491	+/-1.14	2.01	+/-1.15	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.14	+/-1.22	2.01	+/-1.23		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.652	+/-0.429	0.555	+/-0.441	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	84.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-50

Project: GPCC00101

Sample ID: 634652010

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.285	+/-0.641	1.16	+/-0.645	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.55	+/-0.807	1.16	+/-0.861		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.26	+/-0.491	0.418	+/-0.571	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	83.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-04
 Sample ID: 634652011
 Matrix: WQ
 Collect Date: 23-AUG-23
 Receive Date: 24-AUG-23
 Collector: Client

Project: GPCC00101
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gas Flow Proportional Counting

GFPC Ra228, Liquid "As Received"

Radium-228	U	0.408	+/-0.833	1.49	+/-0.840	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
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Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum	U	1.22	+/-0.914	1.49	+/-0.938		pCi/L			LXB3	09/22/23	1000	2483038	2
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Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226		0.816	+/-0.375	0.312	+/-0.418	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3
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The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	73.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-44

Project: GPCC00101

Sample ID: 634652012

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.148	+/-0.949	1.84	+/-0.949	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.477	+/-1.04	1.84	+/-1.05		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.477	+/-0.429	0.653	+/-0.438	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	70.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-50D

Project: GPCC00101

Sample ID: 634652013

Client ID: GPCC001

Matrix: WG

Collect Date: 23-AUG-23

Receive Date: 24-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.18	+/-0.822	1.26	+/-0.875	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.12	+/-0.914	1.26	+/-0.972		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.941	+/-0.401	0.313	+/-0.424	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	87	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 634781001
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gas Flow Proportional Counting

GFPC Ra228, Liquid "As Received"

Radium-228		4.38	+/-1.44	1.72	+/-1.82	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
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Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum		4.92	+/-1.51	1.72	+/-1.88		pCi/L		1	LXB3	09/26/23	1107	2484347	2
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Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226	U	0.542	+/-0.475	0.677	+/-0.482	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3
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The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-05

Project: GPCC00101

Sample ID: 634781002

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.593	+/-0.685	1.15	+/-0.702	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.659	+/-0.732	1.15	+/-0.748		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0660	+/-0.259	0.574	+/-0.259	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	77.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-27I

Project: GPCC00101

Sample ID: 634781003

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.10	+/-1.05	1.72	+/-1.09	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.23	+/-1.17	1.72	+/-1.22		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.13	+/-0.529	0.419	+/-0.558	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	80.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-45

Project: GPCC00101

Sample ID: 634781004

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.541	+/-0.892	1.81	+/-0.893	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.607	+/-1.00	1.81	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.607	+/-0.459	0.567	+/-0.471	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-75I

Project: GPCC00101

Sample ID: 634781005

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.91	+/-1.02	1.48	+/-1.13	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.11	+/-1.15	1.48	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.20	+/-0.533	0.403	+/-0.589	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	85.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-74I

Project: GPCC00101

Sample ID: 634781006

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.191	+/-0.607	1.14	+/-0.609	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.811	+/-0.747	1.14	+/-0.760		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.620	+/-0.435	0.563	+/-0.454	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-29I

Project: GPCC00101

Sample ID: 634781007

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.89	+/-1.37	2.18	+/-1.45	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.02	+/-1.48	2.18	+/-1.58		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.12	+/-0.579	0.574	+/-0.624	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 Address : Company
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-PZ-51D

Project: GPCC00101

Sample ID: 634781008

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.411	+/-0.709	1.25	+/-0.716	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.27	+/-0.851	1.25	+/-0.867		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.860	+/-0.471	0.373	+/-0.489	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-FB-03

Project: GPCC00101

Sample ID: 634781009

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.61	+/-0.878	1.21	+/-0.968	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.93	+/-0.934	1.21	+/-1.02		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.321	+/-0.321	0.451	+/-0.330	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.4	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-APBCD-EB-06

Project: GPCC00101

Sample ID: 634781010

Client ID: GPCC001

Matrix: WQ

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.285	+/-0.704	1.30	+/-0.708	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.924	+/-0.853	1.30	+/-0.861		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.639	+/-0.482	0.617	+/-0.491	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634781011
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.85	+/-1.31	1.43	+/-1.80	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		6.36	+/-1.46	1.43	+/-1.95		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.50	+/-0.652	0.531	+/-0.743	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-47

Project: GPCC00101

Sample ID: 634781012

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.56	+/-1.10	1.71	+/-1.17	3.00	pCi/L			JE1	09/19/23	1053	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.39	+/-1.20	1.71	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.834	+/-0.497	0.424	+/-0.514	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
 Address : Company
 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance APBCD-R

Client Sample ID: BRA-BRGWC-25I

Project: GPCC00101

Sample ID: 634781013

Client ID: GPCC001

Matrix: WG

Collect Date: 24-AUG-23

Receive Date: 25-AUG-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.634	+/-0.916	1.58	+/-0.930	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.21	+/-0.991	1.58	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.574	+/-0.379	0.354	+/-0.399	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634446

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2494433										
QC1205520856	634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/23	08:46
	Uncert:	+/-0.702		+/-0.838							
	TPU:	+/-0.702		+/-0.891							
QC1205520857	LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/23	08:46
	Uncert:			+/-4.33							
	TPU:			+/-19.9							
QC1205520855	MB										
Radium-228				1.38	pCi/L				JE1	09/22/23	08:46
	Uncert:			+/-0.802							
	TPU:			+/-0.875							
Rad Ra-226											
Batch	2482017										
QC1205498038	634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-0.249							
	TPU:	+/-0.337		+/-0.251							
QC1205498040	LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:			+/-2.02							
	TPU:			+/-5.55							
QC1205498037	MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/23	09:26
	Uncert:			+/-0.184							
	TPU:			+/-0.188							
QC1205498039	634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/23	09:26
	Uncert:	+/-0.326		+/-7.23							
	TPU:	+/-0.337		+/-17.8							

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634446

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634781

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2483519								
QC1205500581	634781003 DUP								
Radium-228	U	1.10	U	0.506	pCi/L	0		N/A JE1	09/19/23 10:51
	Uncert:	+/-1.05		+/-1.18					
	TPU:	+/-1.09		+/-1.18					
QC1205500582	LCS								
Radium-228	77.5			72.3	pCi/L		93.3 (75%-125%)	JE1	09/19/23 10:51
	Uncert:			+/-4.27					
	TPU:			+/-18.9					
QC1205500580	MB								
Radium-228				1.94	pCi/L			JE1	09/19/23 10:51
	Uncert:			+/-1.03					
	TPU:			+/-1.15					
Rad Ra-226									
Batch	2483512								
QC1205500562	634781003 DUP								
Radium-226		1.13		1.23	pCi/L	8.5	(0% - 100%)	LXP1	09/26/23 09:21
	Uncert:	+/-0.529		+/-0.578					
	TPU:	+/-0.558		+/-0.626					
QC1205500564	LCS								
Radium-226	26.9			25.2	pCi/L		93.6 (75%-125%)	LXP1	09/26/23 09:21
	Uncert:			+/-2.49					
	TPU:			+/-4.93					
QC1205500561	MB								
Radium-226			U	0.162	pCi/L			LXP1	09/26/23 08:46
	Uncert:			+/-0.229					
	TPU:			+/-0.231					
QC1205500563	634781003 MS								
Radium-226	125	1.13		110	pCi/L		87 (75%-125%)	LXP1	09/26/23 09:21
	Uncert:	+/-0.529		+/-11.2					
	TPU:	+/-0.558		+/-25.2					

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634781

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI		Gamma Spectroscopy--Uncertain identification								
BD		Results are either below the MDC or tracer recovery is low								
h		Preparation or preservation holding time was exceeded								
R		Sample results are rejected								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
N/A		RPD or %Recovery limits do not apply.								
ND		Analyte concentration is not detected above the detection limit								
M		M if above MDC and less than LLD								
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
FA		Failed analysis.								
UJ		Gamma Spectroscopy--Uncertain identification								
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.								
K		Analyte present. Reported value may be biased high. Actual value is expected to be lower.								
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.								
L		Analyte present. Reported value may be biased low. Actual value is expected to be higher.								
N1		See case narrative								
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.								
**		Analyte is a Tracer compound								
M		REMP Result > MDC/CL and < RDL								
J		See case narrative for an explanation								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 26, 2023
Page 1 of 2

Client : Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 634652

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2483035								
QC1205499786	634652001 DUP								
Radium-228		4.20	1.85	pCi/L	77.8		(0% - 100%)	JE1	09/19/2309:26
		Uncert: +/-1.36	+/-0.855						
		TPU: +/-1.73	+/-0.975						
QC1205499787	LCS								
Radium-228	77.6		66.2	pCi/L		85.4	(75%-125%)	JE1	09/19/2309:26
		Uncert:	+/-4.00						
		TPU:	+/-17.3						
QC1205499785	MB								
Radium-228		U	0.216	pCi/L				JE1	09/19/2309:26
		Uncert:	+/-0.891						
		TPU:	+/-0.893						
Rad Ra-226									
Batch	2483037								
QC1205499795	634652001 DUP								
Radium-226		1.02	1.69	pCi/L	49.7		(0% - 100%)	LXP1	09/21/2310:10
		Uncert: +/-0.480	+/-0.621						
		TPU: +/-0.520	+/-0.674						
QC1205499797	LCS								
Radium-226	27.1		28.6	pCi/L		105	(75%-125%)	LXP1	09/21/2310:42
		Uncert:	+/-2.15						
		TPU:	+/-5.29						
QC1205499794	MB								
Radium-226		U	0.0898	pCi/L				LXP1	09/21/2310:10
		Uncert:	+/-0.278						
		TPU:	+/-0.279						
QC1205499796	634652001 MS								
Radium-226	130	1.02	139	pCi/L		106	(75%-125%)	LXP1	09/21/2310:10
		Uncert: +/-0.480	+/-11.3						
		TPU: +/-0.520	+/-34.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 634652

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI	Gamma Spectroscopy--Uncertain identification									
BD	Results are either below the MDC or tracer recovery is low									
h	Preparation or preservation holding time was exceeded									
R	Sample results are rejected									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
N/A	RPD or %Recovery limits do not apply.									
ND	Analyte concentration is not detected above the detection limit									
M	M if above MDC and less than LLD									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
FA	Failed analysis.									
UJ	Gamma Spectroscopy--Uncertain identification									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
N1	See case narrative									
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.									
**	Analyte is a Tracer compound									
M	REMP Result > MDC/CL and < RDL									
J	See case narrative for an explanation									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



October 03, 2022

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 591355,590855 and 590845

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 24, 2022 and August 29, 2022. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to include 6 missing metals.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0003
Enclosures



GEL LABORATORIES LLC

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**Certificate of Analysis Report
for**

GPCC001 Georgia Power Company

Client SDG: 591355 GEL Work Order: 591355

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____



GEL LABORATORIES LLC

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Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 590855 GEL Work Order: 590855

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

**Certificate of Analysis Report
for**

GPCC001 Georgia Power Company

Client SDG: 590845 GEL Work Order: 590845

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-01	Project: GPCC00101
Sample ID: 591355001	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 12:00	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	HXC1	08/30/22	1616	2310523	1
Sulfate		828	13.3	40.0	mg/L		100	HXC1	08/31/22	0143	2310523	2
Chloride		10.8	0.335	1.00	mg/L		5	HXC1	08/31/22	0213	2310523	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	0959	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	1949	2310153	5
Arsenic	J	0.00242	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0176	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00464	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.504	0.000300	0.00100	mg/L	1.00	1					
Iron		48.9	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000871	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0476	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.30	0.0800	0.300	mg/L	1.00	1					
Sodium		33.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0323	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0240	2310153	6
Selenium	J	0.00332	0.00150	0.00500	mg/L	1.00	1					
Boron		0.449	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1857	2310153	7
Calcium		137	0.400	1.00	mg/L	1.00	5					
Magnesium		76.7	0.0500	0.150	mg/L	1.00	5					
Manganese		27.1	0.100	0.500	mg/L	1.00	100	BAJ	09/07/22	1952	2310153	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1350	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1344	2310459	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-01 Project: GPCC00101
Sample ID: 591355001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-58I	Project: GPCC00101
Sample ID: 591355002	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 10:30	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.81			SU			EOS1	08/24/22	1030	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.09	0.0330	0.100	mg/L	1		HXC1	08/30/22	1646	2310523	2
Sulfate		840	13.3	40.0	mg/L	100		HXC1	08/31/22	0243	2310523	3
Chloride		10.7	0.335	1.00	mg/L	5		HXC1	08/31/22	0313	2310523	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1001	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2001	2310153	6
Arsenic	J	0.00245	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0181	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00460	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.503	0.000300	0.00100	mg/L	1.00	1					
Iron		48.9	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000894	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0488	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.25	0.0800	0.300	mg/L	1.00	1					
Sodium		34.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0335	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0244	2310153	7
Selenium	J	0.00348	0.00150	0.00500	mg/L	1.00	1					
Boron		0.464	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1900	2310153	8
Calcium		146	0.400	1.00	mg/L	1.00	5					
Magnesium		80.0	0.0500	0.150	mg/L	1.00	5					
Manganese		29.8	0.100	0.500	mg/L	1.00	100	BAJ	09/08/22	0700	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1380	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-58I Project: GPCC00101
Sample ID: 591355002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1346	2310459	11
Bicarbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-60I	Project: GPCC00101
Sample ID: 591355003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 12:20	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.55			SU			EOS1	08/24/22	1220	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L	1		HXC1	08/30/22	1716	2310523	2
Sulfate		1770	26.6	80.0	mg/L	200		HXC1	08/31/22	0343	2310523	3
Chloride		26.7	0.335	1.00	mg/L	5		HXC1	08/31/22	0413	2310523	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1013	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2007	2310153	6
Arsenic	J	0.00358	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0226	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0170	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.533	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.101	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.7	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0703	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0247	2310153	7
Selenium	J	0.00417	0.00150	0.00500	mg/L	1.00	1					
Boron		0.293	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1909	2310153	8
Cobalt		3.57	0.00150	0.00500	mg/L	1.00	5					
Magnesium		187	0.0500	0.150	mg/L	1.00	5					
Sodium		62.7	0.400	1.25	mg/L	1.00	5					
Calcium		281	0.800	2.00	mg/L	1.00	10	BAJ	09/07/22	2010	2310153	9
Manganese		179	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0702	2310153	10
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2830	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	11
Titration and Ion Analysis												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-60I Project: GPCC00101
Sample ID: 591355003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	2.00	1.45	4.00	mg/L			HH2	09/07/22	1347	2310459	12
Bicarbonate alkalinity (CaCO ₃)	J	2.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-02	Project: GPCC00101
Sample ID: 591355004	Client ID: GPCC001
Matrix: WQ	
Collect Date: 24-AUG-22 15:55	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.207	0.0670	0.200	mg/L		1	HXC1	08/30/22	1746	2310523	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1014	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2025	2310153	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0251	2310153	4
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0648	2310153	5
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.00	1.45	4.00	mg/L			HH2	09/07/22	1348	2310459	7
Bicarbonate alkalinity (CaCO3)	J	3.00	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-02 Project: GPCC00101
Sample ID: 591355004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-29I	Project: GPCC00101
Sample ID: 591355005	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 17:10	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.39			SU			EOS1	08/24/22	1710	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.84	0.0670	0.200	mg/L		1	JLD1	08/30/22	2352	2310658	2
Fluoride		0.103	0.0330	0.100	mg/L		1					
Sulfate		298	13.3	40.0	mg/L		100	JLD1	08/31/22	1838	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1016	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2028	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0175	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00660	0.000300	0.00100	mg/L	1.00	1					
Iron		24.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00304	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.83	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Sodium		17.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.000845	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0302	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		1.13	0.0520	0.150	mg/L	1.00	10	BAJ	09/07/22	1913	2310153	7
Calcium		61.0	0.800	2.00	mg/L	1.00	10					
Manganese		1.20	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		383	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-29I	Project: GPCC00101
Sample ID: 591355005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1350	2310459	9
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-30I	Project: GPCC00101
Sample ID: 591355006	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 16:09	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.38			SU			EOS1	08/24/22	1609	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.91	0.0670	0.200	mg/L		1	JLD1	08/31/22	0124	2310658	2
Fluoride		0.318	0.0330	0.100	mg/L		1					
Sulfate		935	13.3	40.0	mg/L		100	JLD1	08/31/22	1157	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1018	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2031	2310153	5
Arsenic	J	0.00283	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0389	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00163	0.000300	0.00100	mg/L	1.00	1					
Iron		1.41	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0238	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.13	0.0800	0.300	mg/L	1.00	1					
Sodium		30.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0305	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		2.15	0.104	0.300	mg/L	1.00	20	BAJ	09/07/22	1916	2310153	7
Calcium		316	1.60	4.00	mg/L	1.00	20					
Magnesium		57.3	0.200	0.600	mg/L	1.00	20					
Manganese		1.15	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1540	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-30I
Sample ID: 591355006

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		132	1.45	4.00	mg/L			HH2	09/07/22	1351	2310459	9
Bicarbonate alkalinity (CaCO ₃)		132	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-50	Project: GPCC00101
Sample ID: 591355007	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 14:51	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.01			SU			EOS1	08/24/22	1451	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.497	0.0330	0.100	mg/L	1		JLD1	08/31/22	0155	2310658	2
Sulfate		1400	13.3	40.0	mg/L	100		JLD1	08/31/22	1228	2310658	3
Chloride		15.8	0.335	1.00	mg/L	5		JLD1	08/31/22	1259	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1019	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2035	2310153	6
Arsenic	J	0.00250	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00818	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.200	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0428	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.4	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00831	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0309	2310153	7
Selenium	J	0.00176	0.00150	0.00500	mg/L	1.00	1					
Boron		0.406	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1919	2310153	8
Calcium		215	0.400	1.00	mg/L	1.00	5					
Cobalt		1.42	0.00150	0.00500	mg/L	1.00	5					
Magnesium		151	0.0500	0.150	mg/L	1.00	5					
Sodium		51.7	0.400	1.25	mg/L	1.00	5					
Manganese		83.4	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0704	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1990	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-50 Project: GPCC00101
Sample ID: 591355007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		9.40	1.45	4.00	mg/L			HH2	09/07/22	1353	2310459	11
Bicarbonate alkalinity (CaCO ₃)		9.40	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-03	Project: GPCC00101
Sample ID: 591355008	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 12:00	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.163	0.0330	0.100	mg/L		1	JLD1	08/31/22	0226	2310658	1
Chloride		15.0	0.670	2.00	mg/L		10	JLD1	08/31/22	1330	2310658	2
Sulfate		114	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1021	2310246	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2053	2310153	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0570	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00349	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000477	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.24	0.0800	0.300	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0313	2310153	5
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.0448	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0650	2310153	6
Manganese		0.297	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.4	1.45	4.00	mg/L			HH2	09/07/22	1746	2310460	8
Bicarbonate alkalinity (CaCO3)		42.4	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-03 Project: GPCC00101
Sample ID: 591355008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-45	Project: GPCC00101
Sample ID: 591355009	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 10:10	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.74			SU			EOS1	08/25/22	1010	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.166	0.0330	0.100	mg/L	1		JLD1	08/31/22	0257	2310658	2
Chloride		14.9	0.670	2.00	mg/L	10		JLD1	08/31/22	1400	2310658	3
Sulfate		114	1.33	4.00	mg/L	10						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1023	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2056	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0574	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00357	0.000300	0.00100	mg/L	1.00	1					
Iron		0.166	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000424	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.19	0.0800	0.300	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0316	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.0458	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0652	2310153	7
Manganese		0.302	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		248	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-45 Project: GPCC00101
Sample ID: 591355009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		43.4	1.45	4.00	mg/L			HH2	09/07/22	1751	2310460	9
Bicarbonate alkalinity (CaCO ₃)		43.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-44	Project: GPCC00101
Sample ID: 591355010	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 11:31	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.06			SU			EOS1	08/25/22	1131	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.28	0.0670	0.200	mg/L		1	JLD1	08/31/22	0328	2310658	2
Fluoride		0.184	0.0330	0.100	mg/L		1					
Sulfate		47.0	1.33	4.00	mg/L		10	JLD1	08/31/22	1431	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1025	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2059	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0560	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		27.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0537	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00652	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.67	0.0800	0.300	mg/L	1.00	1					
Sodium		12.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0320	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		1.59	0.104	0.300	mg/L	1.00	20	BAJ	09/07/22	1922	2310153	7
Manganese		0.447	0.00100	0.00500	mg/L	1.00	1	BAJ	09/08/22	0653	2310153	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		167	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-44 Project: GPCC00101
Sample ID: 591355010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		78.0	1.45	4.00	mg/L			HH2	09/07/22	1753	2310460	10
Bicarbonate alkalinity (CaCO ₃)		78.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51I	Project: GPCC00101
Sample ID: 591355011	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 12:34	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.49			SU			EOS1	08/24/22	1234	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.148	0.0330	0.100	mg/L	1		JLD1	08/31/22	0500	2310658	2
Sulfate		1240	13.3	40.0	mg/L	100		JLD1	08/31/22	1502	2310658	3
Chloride		9.64	0.134	0.400	mg/L	2		JLD1	08/31/22	1635	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1026	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2102	2310153	6
Arsenic	J	0.00222	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0154	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00478	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0239	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0930	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0222	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000313	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.8	0.0800	0.300	mg/L	1.00	1					
Sodium		47.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0323	2310153	7
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.459	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1925	2310153	8
Calcium		197	0.400	1.00	mg/L	1.00	5					
Magnesium		134	0.0500	0.150	mg/L	1.00	5					
Manganese		47.4	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0659	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1740	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51I Project: GPCC00101
Sample ID: 591355011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		22.0	1.45	4.00	mg/L			HH2	09/07/22	1355	2310459	11
Bicarbonate alkalinity (CaCO ₃)		22.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51D	Project: GPCC00101
Sample ID: 591355012	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 10:49	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.15			SU			EOS1	08/24/22	1049	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.318	0.0330	0.100	mg/L	1		JLD1	08/31/22	0531	2310658	2
Chloride		17.5	3.35	10.0	mg/L	50		JLD1	08/31/22	1705	2310658	3
Sulfate		377	6.65	20.0	mg/L	50						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1031	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2055	2310155	5
Arsenic	J	0.00308	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0584	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000306	0.000300	0.00100	mg/L	1.00	1					
Iron		2.89	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00420	0.00300	0.0100	mg/L	1.00	1					
Magnesium		28.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00171	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.82	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1050	2310155	6
Boron		0.0360	0.00520	0.0150	mg/L	1.00	1					
Calcium		118	0.800	2.00	mg/L	1.00	10	PRB	09/10/22	0719	2310155	7
Manganese		1.11	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		715	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51D Project: GPCC00101
Sample ID: 591355012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		129	1.45	4.00	mg/L			HH2	09/07/22	1356	2310459	9
Bicarbonate alkalinity (CaCO ₃)		129	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-61I	Project: GPCC00101
Sample ID: 591355013	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 14:02	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.14			SU			EOS1	08/24/22	1402	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.103	0.0330	0.100	mg/L	1		JLD1	08/31/22	0602	2310658	2
Sulfate		1800	26.6	80.0	mg/L	200		JLD1	08/31/22	1736	2310658	3
Chloride		19.2	0.670	2.00	mg/L	10		JLD1	08/31/22	1807	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1033	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2121	2310155	6
Arsenic	J	0.00295	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000859	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.562	0.000300	0.00100	mg/L	1.00	1					
Iron		0.532	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.00113	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00913	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.34	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00510	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00198	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1100	2310155	7
Boron		0.277	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0734	2310155	8
Calcium		214	0.400	1.00	mg/L	1.00	5					
Magnesium		165	0.0500	0.150	mg/L	1.00	5					
Sodium		58.8	0.400	1.25	mg/L	1.00	5					
Manganese		108	1.00	5.00	mg/L	1.00	1000	PRB	09/10/22	0839	2310155	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2400	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-61I Project: GPCC00101
Sample ID: 591355013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		16.8	1.45	4.00	mg/L			HH2	09/07/22	1401	2310459	11
Bicarbonate alkalinity (CaCO ₃)		16.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51S	Project: GPCC00101
Sample ID: 591355014	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 16:09	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.12			SU			EOS1	08/24/22	1609	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.58	0.0670	0.200	mg/L		1	JLD1	08/31/22	0633	2310658	2
Fluoride		0.131	0.0330	0.100	mg/L		1					
Sulfate		0.872	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1035	2310246	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2124	2310155	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0223	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.94	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00193	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.23	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.37	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1105	2310155	5
Boron	J	0.00563	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.781	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		90.0	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	6
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-51S Project: GPCC00101
Sample ID: 591355014 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		64.2	1.45	4.00	mg/L			HH2	09/07/22	1403	2310459	7
Bicarbonate alkalinity (CaCO ₃)		64.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-02	Project: GPCC00101
Sample ID: 591355015	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-AUG-22 12:00	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.20	0.0670	0.200	mg/L		1	HXC1	08/31/22	1152	2310688	1
Fluoride		0.121	0.0330	0.100	mg/L		1					
Sulfate		0.880	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1037	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2128	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0228	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.37	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00188	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.58	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.47	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1111	2310155	4
Boron	J	0.00617	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.805	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		87.0	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		64.6	1.45	4.00	mg/L			HH2	09/07/22	1404	2310459	6
Bicarbonate alkalinity (CaCO3)		64.6	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FD-02 Project: GPCC00101
Sample ID: 591355015 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-50D Project: GPCC00101
Sample ID: 591355016 Client ID: GPCC001
Matrix: WG
Collect Date: 25-AUG-22 09:51
Receive Date: 29-AUG-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.11			SU			EOS1	08/25/22	0951	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.106	0.0330	0.100	mg/L		1	HXC1	08/31/22	1221	2310688	2
Chloride		26.2	6.70	20.0	mg/L		100	HXC1	08/31/22	2149	2310688	3
Sulfate		1060	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1038	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2131	2310155	5
Arsenic	J	0.00235	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0257	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.506	0.000300	0.00100	mg/L	1.00	1					
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0255	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00109	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000269	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1113	2310155	6
Boron		0.278	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0741	2310155	7
Calcium		210	0.400	1.00	mg/L	1.00	5					
Magnesium		95.7	0.0500	0.150	mg/L	1.00	5					
Sodium		53.6	0.400	1.25	mg/L	1.00	5					
Manganese		36.1	0.100	0.500	mg/L	1.00	100	PRB	09/10/22	0745	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1750	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-50D Project: GPCC00101
Sample ID: 591355016 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		57.0	1.45	4.00	mg/L			HH2	09/07/22	1754	2310460	10
Bicarbonate alkalinity (CaCO ₃)		57.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-06	Project: GPCC00101
Sample ID: 591355017	Client ID: GPCC001
Matrix: WQ	
Collect Date: 25-AUG-22 09:42	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1251	2310688	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1040	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2135	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1117	2310155	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.00523	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.00	1.45	4.00	mg/L			HH2	09/07/22	1755	2310460	6
Bicarbonate alkalinity (CaCO3)	J	3.00	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-06 Project: GPCC00101
Sample ID: 591355017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-62I	Project: GPCC00101
Sample ID: 591355018	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 11:21	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.50			SU			EOS1	08/25/22	1121	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.97	0.0670	0.200	mg/L		1	HXC1	08/31/22	1321	2310688	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		571	6.65	20.0	mg/L		50	HXC1	08/31/22	2219	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1042	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2139	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0259	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000618	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.370	0.000300	0.00100	mg/L	1.00	1					
Iron		1.03	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00617	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000286	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.67	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000219	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1119	2310155	6
Boron		0.473	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0755	2310155	7
Calcium		104	0.400	1.00	mg/L	1.00	5					
Magnesium		54.2	0.0500	0.150	mg/L	1.00	5					
Manganese		26.9	0.100	0.500	mg/L	1.00	100	PRB	09/10/22	0759	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		918	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-62I	Project: GPCC00101
Sample ID: 591355018	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		19.2	1.45	4.00	mg/L			HH2	09/07/22	1756	2310460	10
Bicarbonate alkalinity (CaCO ₃)		19.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-59I Project: GPCC00101
Sample ID: 591355019 Client ID: GPCC001
Matrix: WG
Collect Date: 25-AUG-22 13:16
Receive Date: 29-AUG-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.72			SU			EOS1	08/25/22	1316	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.80	0.0330	0.100	mg/L	1	HXC1	08/31/22	1351	2310688		2
Chloride		53.0	13.4	40.0	mg/L	200	HXC1	08/31/22	2348	2310688		3
Sulfate		2900	26.6	80.0	mg/L	200						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1043	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2142	2310155	5
Arsenic		0.0221	0.00200	0.00500	mg/L	1.00	1					
Cadmium		0.00536	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00324	0.00300	0.0100	mg/L	1.00	1					
Lithium		0.164	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		16.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.113	0.00150	0.00500	mg/L	1.00	1					
Beryllium		0.100	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1121	2310155	6
Boron		0.0550	0.00520	0.0150	mg/L	1.00	1					
Barium	J	0.0121	0.00335	0.0200	mg/L	1.00	5	PRB	09/10/22	0803	2310155	7
Cobalt		1.46	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Magnesium		180	0.0500	0.150	mg/L	1.00	5					
Sodium		92.0	0.400	1.25	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Calcium		267	8.00	20.0	mg/L	1.00	100	PRB	09/10/22	0806	2310155	8
Iron		448	3.30	10.0	mg/L	1.00	100					
Manganese		74.7	0.100	0.500	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4370	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-59I	Project: GPCC00101
Sample ID: 591355019	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1758	2310460	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-27I	Project: GPCC00101
Sample ID: 591355020	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 10:12	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.03			SU			EOS1	08/25/22	1012	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.65	0.0670	0.200	mg/L		1	HXC1	08/31/22	1421	2310688	2
Fluoride		0.234	0.0330	0.100	mg/L		1					
Sulfate		176	2.66	8.00	mg/L		20	HXC1	09/01/22	0018	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1045	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2153	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0161	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00790	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0361	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.73	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.03	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1125	2310155	6
Manganese		0.674	0.00100	0.00500	mg/L	1.00	1					
Boron		1.03	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0810	2310155	7
Calcium		64.0	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		311	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-27I
Sample ID: 591355020

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		33.4	1.45	4.00	mg/L			HH2	09/07/22	1801	2310460	9
Bicarbonate alkalinity (CaCO ₃)		33.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-03	Project: GPCC00101
Sample ID: 591355021	Client ID: GPCC001
Matrix: WQ	
Collect Date: 25-AUG-22 10:45	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1451	2310688	1
Fluoride	J	0.0890	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1128	2310248	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2157	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.107	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1129	2310155	4
Boron	J	0.00648	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.00513	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.20	1.45	4.00	mg/L			HH2	09/07/22	1802	2310460	6
Bicarbonate alkalinity (CaCO3)	J	3.20	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-03 Project: GPCC00101
Sample ID: 591355021 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-63I	Project: GPCC00101
Sample ID: 591355022	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 12:20	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.65			SU			EOS1	08/25/22	1220	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.15	0.0670	0.200	mg/L		1	HXC1	08/31/22	1521	2310688	2
Fluoride		0.235	0.0330	0.100	mg/L		1					
Sulfate		234	2.66	8.00	mg/L		20	HXC1	09/01/22	0048	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1133	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2200	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0232	0.000300	0.00100	mg/L	1.00	1					
Iron		2.04	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00509	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000741	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.94	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1134	2310155	6
Boron		0.672	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0813	2310155	7
Manganese		5.46	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		419	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-63I Project: GPCC00101
Sample ID: 591355022 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.8	1.45	4.00	mg/L			HH2	09/07/22	1803	2310460	9
Bicarbonate alkalinity (CaCO ₃)		32.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-57I	Project: GPCC00101
Sample ID: 591355023	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 10:55	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.91			SU			EOS1	08/25/22	1055	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.41	0.0670	0.200	mg/L		1	HXC1	08/31/22	1551	2310688	2
Fluoride		0.235	0.0330	0.100	mg/L		1					
Sulfate		294	5.32	16.0	mg/L		40	HXC1	09/01/22	0118	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1135	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2204	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0219	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0194	0.000300	0.00100	mg/L	1.00	1					
Iron		1.35	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0231	0.00300	0.0100	mg/L	1.00	1					
Magnesium		31.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000393	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1136	2310155	6
Boron		0.496	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0817	2310155	7
Calcium		53.0	0.400	1.00	mg/L	1.00	5					
Manganese		14.2	0.0200	0.100	mg/L	1.00	20	PRB	09/10/22	0821	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		554	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: PZ-57I Project: GPCC00101
Sample ID: 591355023 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		27.0	1.45	4.00	mg/L			HH2	09/07/22	1804	2310460	10
Bicarbonate alkalinity (CaCO ₃)		27.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-32S	Project: GPCC00101
Sample ID: 591355024	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 12:35	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.06			SU			EOS1	08/25/22	1235	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.96	0.0670	0.200	mg/L		1	HXC1	08/31/22	1620	2310688	2
Fluoride		0.138	0.0330	0.100	mg/L		1					
Sulfate		254	2.66	8.00	mg/L		20	HXC1	09/01/22	0148	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1137	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2208	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0231	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		48.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00430	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.25	0.0800	0.300	mg/L	1.00	1					
Selenium		0.218	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1138	2310155	6
Manganese		0.0107	0.00100	0.00500	mg/L	1.00	1					
Boron		1.07	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0824	2310155	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		437	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-32S Project: GPCC00101
Sample ID: 591355024 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		30.2	1.45	4.00	mg/L			HH2	09/07/22	1805	2310460	9
Bicarbonate alkalinity (CaCO ₃)		30.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-07 Project: GPCC00101
Sample ID: 591355025 Client ID: GPCC001
Matrix: WQ
Collect Date: 25-AUG-22 12:45
Receive Date: 29-AUG-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1750	2310688	1
Fluoride	J	0.0758	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1139	2310248	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2211	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1140	2310155	4
Boron		0.0159	0.00520	0.0150	mg/L	1.00	1					
Manganese	J	0.00387	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	2.80	1.45	4.00	mg/L			HH2	09/07/22	1806	2310460	6
Bicarbonate alkalinity (CaCO3)	J	2.80	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-07 Project: GPCC00101
Sample ID: 591355025 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-52I	Project: GPCC00101
Sample ID: 591355026	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-AUG-22 12:55	
Receive Date: 29-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.21			SU			EOS1	08/25/22	1255	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.27	0.0670	0.200	mg/L		1	HXC1	08/31/22	1820	2310688	2
Fluoride		0.157	0.0330	0.100	mg/L		1					
Sulfate		142	1.33	4.00	mg/L		10	HXC1	09/01/22	0218	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1140	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2215	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0179	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		38.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0162	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000471	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.96	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1142	2310155	6
Manganese		0.601	0.00100	0.00500	mg/L	1.00	1					
Boron		1.56	0.104	0.300	mg/L	1.00	20	PRB	09/10/22	0828	2310155	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		296	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-52I
Sample ID: 591355026

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		57.2	1.45	4.00	mg/L			HH2	09/07/22	1807	2310460	9
Bicarbonate alkalinity (CaCO ₃)		57.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-12I	Project: GPCC00101
Sample ID: 590855001	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-22 11:43	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.39			SU			EOS1	08/23/22	1143	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.50	0.0670	0.200	mg/L		1	JLD1	08/25/22	1857	2308691	2
Fluoride		0.151	0.0330	0.100	mg/L		1					
Sulfate		1.84	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1054	2308549	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0024	2308385	4
Barium		0.0602	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00451	0.00300	0.0100	mg/L	1.00	1					
Potassium		3.37	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		10.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony		0.0241	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1455	2308385	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1151	2308385	6
Boron	J	0.00653	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.8	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.00	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00506	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000413	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		104	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	7
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-12I	Project: GPCC00101
Sample ID: 590855001	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.8	1.45	4.00	mg/L			HH2	09/04/22	1349	2309339	8
Bicarbonate alkalinity (CaCO3)		65.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-01	Project: GPCC00101
Sample ID: 590855002	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-22 13:15	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.186	0.0670	0.200	mg/L		1	JLD1	08/25/22	1926	2308691	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1056	2308549	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0028	2308385	3
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.565	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1457	2308385	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1134	2308385	5
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		0.250	0.0800	0.200	mg/L	1.00	1					
Magnesium	J	0.0137	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L			HH2	09/04/22	1350	2309339	7
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: FB-01 Project: GPCC00101
Sample ID: 590855002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-12S	Project: GPCC00101
Sample ID: 590855003	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-22 13:38	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.90			SU			EOS1	08/23/22	1338	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.46	0.0670	0.200	mg/L		1	JLD1	08/25/22	1956	2308691	2
Fluoride		0.129	0.0330	0.100	mg/L		1					
Sulfate		0.636	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1058	2308549	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0039	2308385	4
Barium		0.0607	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium		2.55	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.41	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1459	2308385	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1137	2308385	6
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.09	0.0800	0.200	mg/L	1.00	1					
Magnesium		3.53	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00103	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		55.0	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	7
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-12S Project: GPCC00101
Sample ID: 590855003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		32.0	1.45	4.00	mg/L			HH2	09/04/22	1351	2309339	8
Bicarbonate alkalinity (CaCO ₃)		32.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-25I	Project: GPCC00101
Sample ID: 590855004	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-22 15:41	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.11			SU			EOS1	08/23/22	1541	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.38	0.0670	0.200	mg/L		1	JLD1	08/25/22	2026	2308691	2
Fluoride		0.186	0.0330	0.100	mg/L		1					
Sulfate		158	2.66	8.00	mg/L		20	JLD1	08/26/22	0255	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1103	2308549	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0042	2308385	5
Barium		0.0259	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00342	0.000300	0.00100	mg/L	1.00	1					
Iron		0.193	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium		4.20	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1504	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1233	2308385	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Magnesium		21.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00105	0.000200	0.00100	mg/L	1.00	1					
Boron		1.38	0.104	0.300	mg/L	1.00	20	BAJ	09/03/22	1207	2308385	8
Calcium		51.5	1.60	4.00	mg/L	1.00	20					
Manganese		1.68	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		315	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-25I Project: GPCC00101
Sample ID: 590855004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		75.6	1.45	4.00	mg/L			HH2	09/04/22	1352	2309339	10
Bicarbonate alkalinity (CaCO ₃)		75.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-23S	Project: GPCC00101
Sample ID: 590845001	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-22 13:45	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.66			SU			EOS1	08/23/22	1345	2308297	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.16	0.0670	0.200	mg/L		1	JLD1	08/25/22	1627	2308691	2
Fluoride		0.157	0.0330	0.100	mg/L		1					
Sulfate		24.4	0.266	0.800	mg/L		2	JLD1	08/26/22	0155	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1148	2308555	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0014	2308385	5
Barium		0.0573	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000308	0.000300	0.00100	mg/L	1.00	1					
Iron		0.114	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00792	0.00300	0.0100	mg/L	1.00	1					
Potassium		2.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		9.81	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1450	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1119	2308385	7
Boron		0.0498	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.09	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.69	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0360	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		103	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWA-23S	Project: GPCC00101
Sample ID: 590845001	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.4	1.45	4.00	mg/L			HH2	09/04/22	1346	2309339	9
Bicarbonate alkalinity (CaCO3)		30.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-47	Project: GPCC00101
Sample ID: 590845002	Client ID: GPCC001
Matrix: WG	
Collect Date: 23-AUG-22 15:20	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.61			SU			EOS1	08/23/22	1520	2308297	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.49	0.0670	0.200	mg/L		1	JLD1	08/25/22	1757	2308691	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1410	26.6	80.0	mg/L		200	JLD1	08/26/22	0225	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1150	2308555	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.00228	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0017	2308385	5
Barium		0.0285	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0474	0.00300	0.0100	mg/L	1.00	1					
Potassium		11.8	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1452	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1230	2308385	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Manganese		0.0103	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Boron		0.547	0.0520	0.150	mg/L	1.00	10	BAJ	09/03/22	1204	2308385	8
Calcium		323	0.800	2.00	mg/L	1.00	10					
Magnesium		125	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2060	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRGWC-47 Project: GPCC00101
Sample ID: 590845002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		28.4	1.45	4.00	mg/L			HH2	09/04/22	1347	2309339	10
Bicarbonate alkalinity (CaCO ₃)		28.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-05	Project: GPCC00101
Sample ID: 590845003	Client ID: GPCC001
Matrix: WQ	
Collect Date: 23-AUG-22 14:55	
Receive Date: 24-AUG-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.188	0.0670	0.200	mg/L		1	JLD1	08/25/22	1827	2308691	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1152	2308555	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0021	2308385	3
Barium	J	0.000796	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.703	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1453	2308385	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1122	2308385	5
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		0.313	0.0800	0.200	mg/L	1.00	1					
Magnesium	J	0.0152	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.6	1.45	4.00	mg/L			HH2	09/04/22	1348	2309339	7
Bicarbonate alkalinity (CaCO3)		20.6	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: EB-05 Project: GPCC00101
Sample ID: 590845003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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QC Summary

Report Date: October 3, 2022

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 591355

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2310523										
QC1205179260	591351001	DUP									
Chloride		5.00		4.97	mg/L	0.702		(0%-20%)	HXC1	08/30/22	20:15
Fluoride		0.274		0.272	mg/L	0.88 ^		(+/-0.100)			
Sulfate		157		158	mg/L	0.766		(0%-20%)		08/30/22	21:44
QC1205179259	LCS										
Chloride	5.00			4.72	mg/L		94.4	(90%-110%)		08/30/22	19:45
Fluoride	2.50			2.51	mg/L		100	(90%-110%)			
Sulfate	10.0			9.64	mg/L		96.4	(90%-110%)			
QC1205179258	MB										
Chloride			U	ND	mg/L					08/30/22	19:15
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205179261	591351001	PS									
Chloride	5.00	5.00		10.4	mg/L		107	(90%-110%)		08/30/22	20:45
Fluoride	2.50	0.274		2.66	mg/L		95.4	(90%-110%)			
Sulfate	10.0	7.86		18.2	mg/L		103	(90%-110%)		08/30/22	22:14

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QC Summary

Workorder: 591355

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2310658										
QC1205179525	591355005	DUP									
Chloride		5.84		5.85	mg/L	0.157		(0%-20%)	JLD1	08/31/22	00:23
Fluoride		0.103		0.101	mg/L	2.06 ^		(+/-0.100)			
Sulfate		298		305	mg/L	2.44		(0%-20%)		08/31/22	19:09
QC1205179524	LCS										
Chloride	5.00			5.00	mg/L		100	(90%-110%)		08/30/22	23:21
Fluoride	2.50			2.41	mg/L		96.6	(90%-110%)			
Sulfate	10.0			10.4	mg/L		104	(90%-110%)			
QC1205179523	MB										
Chloride			U	ND	mg/L					08/30/22	22:50
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205179526	591355005	PS									
Chloride	5.00	5.84		12.4	mg/L		131 *	(90%-110%)		08/31/22	00:53
Fluoride	2.50	0.103		2.75	mg/L		106	(90%-110%)			
Sulfate	10.0	2.98		12.9	mg/L		99.2	(90%-110%)		08/31/22	19:40
Batch	2310688										
QC1205179579	591355015	DUP									
Chloride		4.20		4.21	mg/L	0.252		(0%-20%)	HXC1	08/31/22	19:49
Fluoride		0.121		0.116	mg/L	3.46 ^		(+/-0.100)			

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QC Summary

Workorder: 591355

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2310688										
Sulfate		0.880		0.815	mg/L	7.69 ^		(+/-0.400)	HXC1	08/31/22	19:49
QC1205179581	591355026	DUP									
Chloride		6.27		6.28	mg/L	0.231		(0%-20%)		08/31/22	20:49
Fluoride		0.157		0.155	mg/L	1.41 ^		(+/-0.100)			
Sulfate		142		142	mg/L	0.0739		(0%-20%)		09/01/22	02:48
QC1205179578	LCS										
Chloride	5.00			4.71	mg/L		94.3	(90%-110%)		08/31/22	19:20
Fluoride	2.50			2.53	mg/L		101	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205179577	MB										
Chloride			U	ND	mg/L					08/31/22	18:50
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205179580	591355015	PS									
Chloride	5.00	4.20		9.73	mg/L		111 *	(90%-110%)		08/31/22	20:19
Fluoride	2.50	0.121		2.64	mg/L		101	(90%-110%)			
Sulfate	10.0	0.880		10.7	mg/L		97.8	(90%-110%)			
QC1205179582	591355026	PS									
Chloride	5.00	6.27		12.1	mg/L		117 *	(90%-110%)		08/31/22	21:19

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QC Summary

Workorder: 591355

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2310688										
Fluoride	2.50	0.157		2.69	mg/L		101	(90%-110%)	HXC1	08/31/22	21:19
Sulfate	10.0	14.2		24.9	mg/L		107	(90%-110%)		09/01/22	03:17
Metals Analysis - ICPMS											
Batch	2310153										
QC1205178580	LCS										
Antimony	0.0500			0.0540	mg/L		108	(80%-120%)	BAJ	09/07/22	18:17
Arsenic	0.0500			0.0568	mg/L		114	(80%-120%)			
Barium	0.0500			0.0523	mg/L		105	(80%-120%)			
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)		09/07/22	01:53
Boron	0.100			0.108	mg/L		108	(80%-120%)		09/07/22	18:17
Cadmium	0.0500			0.0568	mg/L		114	(80%-120%)			
Calcium	2.00			2.13	mg/L		106	(80%-120%)			
Chromium	0.0500			0.0512	mg/L		102	(80%-120%)			
Cobalt	0.0500			0.0513	mg/L		103	(80%-120%)			
Iron	2.00			2.04	mg/L		102	(80%-120%)			
Lead	0.0500			0.0528	mg/L		106	(80%-120%)			
Lithium	0.0500			0.0505	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 591355

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
Magnesium	2.00			2.14	mg/L		107	(80%-120%)	BAJ	09/07/22	18:17
Manganese	0.0500			0.0508	mg/L		102	(80%-120%)			
Molybdenum	0.0500			0.0534	mg/L		107	(80%-120%)			
Potassium	2.00			2.10	mg/L		105	(80%-120%)			
Selenium	0.0500			0.0499	mg/L		99.8	(80%-120%)		09/07/22	01:53
Sodium	2.00			2.08	mg/L		104	(80%-120%)		09/07/22	18:17
Thallium	0.0500			0.0505	mg/L		101	(80%-120%)			
QC1205178579	MB										
Antimony			U	ND	mg/L					09/07/22	18:14
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					09/07/22	01:50
Boron			U	ND	mg/L					09/07/22	18:14
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						

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QC Summary

Workorder: 591355

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
Cobalt			U	ND	mg/L				BAJ	09/07/22	18:14
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L					09/07/22	01:50
Sodium			U	ND	mg/L					09/07/22	18:14
Thallium			U	ND	mg/L						
QC1205178581 591351001 MS											
Antimony	0.0500	U	ND	0.0519	mg/L		103	(75%-125%)		09/07/22	18:23
Arsenic	0.0500	U	ND	0.0532	mg/L		104	(75%-125%)			
Barium	0.0500		0.0512	0.104	mg/L		106	(75%-125%)			
Beryllium	0.0500	U	ND	0.0560	mg/L		112	(75%-125%)		09/07/22	02:00

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QC Summary

Workorder: 591355

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
Boron	0.100	0.0273		0.134	mg/L		107	(75%-125%)	BAJ	09/07/22	18:23
Cadmium	0.0500	U	ND	0.0522	mg/L		104	(75%-125%)			
Calcium	2.00		43.6	47.5	mg/L		N/A	(75%-125%)			
Chromium	0.0500		0.0127	0.0655	mg/L		106	(75%-125%)			
Cobalt	0.0500	U	ND	0.0502	mg/L		100	(75%-125%)			
Iron	2.00	U	ND	2.08	mg/L		103	(75%-125%)			
Lead	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND	0.0528	mg/L		103	(75%-125%)			
Magnesium	2.00		25.7	28.9	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U	ND	0.0507	mg/L		100	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0559	mg/L		112	(75%-125%)			
Potassium	2.00		1.29	3.38	mg/L		105	(75%-125%)			
Selenium	0.0500	J	0.00208	0.0515	mg/L		98.9	(75%-125%)		09/07/22	02:00
Sodium	2.00		24.6	27.8	mg/L		N/A	(75%-125%)		09/07/22	18:23
Thallium	0.0500	U	ND	0.0502	mg/L		100	(75%-125%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
	QC1205178582 591351001 MSD										
Antimony	0.0500	U	ND	0.0533	mg/L	2.66	106	(0%-20%)	BAJ	09/07/22	18:26
Arsenic	0.0500	U	ND	0.0555	mg/L	4.3	109	(0%-20%)			
Barium	0.0500		0.0512	0.105	mg/L	0.178	107	(0%-20%)			
Beryllium	0.0500	U	ND	0.0546	mg/L	2.52	109	(0%-20%)		09/07/22	02:04
Boron	0.100		0.0273	0.134	mg/L	0.174	107	(0%-20%)		09/07/22	18:26
Cadmium	0.0500	U	ND	0.0544	mg/L	4.28	109	(0%-20%)			
Calcium	2.00		43.6	45.7	mg/L	3.85	N/A	(0%-20%)			
Chromium	0.0500		0.0127	0.0636	mg/L	2.93	102	(0%-20%)			
Cobalt	0.0500	U	ND	0.0494	mg/L	1.65	98.7	(0%-20%)			
Iron	2.00	U	ND	2.06	mg/L	1.04	102	(0%-20%)			
Lead	0.0500	U	ND	0.0512	mg/L	0.258	102	(0%-20%)			
Lithium	0.0500	U	ND	0.0515	mg/L	2.49	101	(0%-20%)			
Magnesium	2.00		25.7	27.9	mg/L	3.37	N/A	(0%-20%)			
Manganese	0.0500	U	ND	0.0506	mg/L	0.0711	100	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0558	mg/L	0.308	111	(0%-20%)			

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
Potassium	2.00	1.29		3.38	mg/L	0.0861	105	(0%-20%)	BAJ	09/07/22	18:26
Selenium	0.0500	J	0.00208	0.0521	mg/L	1.07	100	(0%-20%)		09/07/22	02:04
Sodium	2.00	24.6		27.1	mg/L	2.51	N/A	(0%-20%)		09/07/22	18:26
Thallium	0.0500	U	ND	0.0503	mg/L	0.279	100	(0%-20%)			
QC1205178583 591351001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/07/22	18:54
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			51.2	9.71	ug/L	5.13		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/07/22	02:11
Boron			27.3	J	5.37	ug/L	1.81	(0%-20%)		09/07/22	18:54
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Calcium			43600	8480	ug/L	2.85		(0%-20%)			
Chromium			12.7	U	ND	ug/L	N/A	(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Iron		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310153										
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/07/22	18:54
Magnesium		25700		4930	ug/L	4.31		(0%-20%)			
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		1290	J	250	ug/L	2.87		(0%-20%)			
Selenium	J	2.08	U	ND	ug/L	N/A		(0%-20%)		09/07/22	02:11
Sodium		24600		4790	ug/L	2.6		(0%-20%)		09/07/22	18:54
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Batch	2310155										
QC1205178585	LCS										
Antimony	0.0500			0.0467	mg/L		93.4	(80%-120%)	PRB	09/09/22	20:52
Arsenic	0.0500			0.0462	mg/L		92.3	(80%-120%)			
Barium	0.0500			0.0489	mg/L		97.8	(80%-120%)			
Beryllium	0.0500			0.0518	mg/L		104	(80%-120%)		09/10/22	10:48
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0482	mg/L		96.5	(80%-120%)		09/09/22	20:52
Calcium	2.00			2.00	mg/L		99.9	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Chromium	0.0500			0.0474	mg/L		94.7	(80%-120%)	PRB	09/09/22	20:52
Cobalt	0.0500			0.0462	mg/L		92.4	(80%-120%)			
Iron	2.00			1.84	mg/L		92.2	(80%-120%)			
Lead	0.0500			0.0485	mg/L		97	(80%-120%)			
Lithium	0.0500			0.0478	mg/L		95.7	(80%-120%)			
Magnesium	2.00			1.94	mg/L		97	(80%-120%)			
Manganese	0.0500			0.0475	mg/L		95	(80%-120%)		09/10/22	10:48
Molybdenum	0.0500			0.0480	mg/L		95.9	(80%-120%)		09/09/22	20:52
Potassium	2.00			1.90	mg/L		95.2	(80%-120%)			
Selenium	0.0500			0.0473	mg/L		94.6	(80%-120%)			
Sodium	2.00			1.89	mg/L		94.4	(80%-120%)			
Thallium	0.0500			0.0469	mg/L		93.8	(80%-120%)			
QC1205178584	MB										
Antimony			U	ND	mg/L					09/09/22	20:48
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Beryllium			U	ND	mg/L				PRB	09/10/22	10:46
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L					09/09/22	20:48
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/10/22	10:46
Molybdenum			U	ND	mg/L					09/09/22	20:48
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

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Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Thallium			U	ND	mg/L				PRB	09/09/22	20:48
QC1205178586 591355012 MS											
Antimony	0.0500	U	ND	0.0503	mg/L		100	(75%-125%)		09/09/22	20:59
Arsenic	0.0500	J	0.00308	0.0527	mg/L		99.2	(75%-125%)			
Barium	0.0500		0.0584	0.109	mg/L		101	(75%-125%)			
Beryllium	0.0500	U	ND	0.0530	mg/L		106	(75%-125%)		09/10/22	10:52
Boron	0.100		0.0360	0.139	mg/L		103	(75%-125%)			
Cadmium	0.0500	U	ND	0.0508	mg/L		102	(75%-125%)		09/09/22	20:59
Calcium	2.00		118	122	mg/L		N/A	(75%-125%)		09/10/22	07:23
Chromium	0.0500	U	ND	0.0486	mg/L		95.7	(75%-125%)		09/09/22	20:59
Cobalt	0.0500	J	0.000306	0.0476	mg/L		94.5	(75%-125%)			
Iron	2.00		2.89	4.84	mg/L		97.5	(75%-125%)			
Lead	0.0500	U	ND	0.0477	mg/L		95.2	(75%-125%)			
Lithium	0.0500	J	0.00420	0.0536	mg/L		98.8	(75%-125%)			
Magnesium	2.00		28.1	29.9	mg/L		N/A	(75%-125%)			
Manganese	0.0500		1.11	1.23	mg/L		N/A	(75%-125%)		09/10/22	07:23

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Molybdenum	0.0500	0.00171		0.0548	mg/L		106	(75%-125%)	PRB	09/09/22	20:59
Potassium	2.00	9.82		11.9	mg/L		N/A	(75%-125%)			
Selenium	0.0500	U	ND	0.0488	mg/L		96.9	(75%-125%)			
Sodium	2.00	39.8		41.6	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0475	mg/L		94.8	(75%-125%)			
QC1205178587 591355012 MSD											
Antimony	0.0500	U	ND	0.0497	mg/L	1.19	99	(0%-20%)		09/09/22	21:03
Arsenic	0.0500	J	0.00308	0.0521	mg/L	1.05	98.1	(0%-20%)			
Barium	0.0500	0.0584		0.110	mg/L	1.1	104	(0%-20%)			
Beryllium	0.0500	U	ND	0.0526	mg/L	0.769	105	(0%-20%)		09/10/22	10:54
Boron	0.100	0.0360		0.142	mg/L	2.3	106	(0%-20%)			
Cadmium	0.0500	U	ND	0.0502	mg/L	1.27	100	(0%-20%)		09/09/22	21:03
Calcium	2.00	118		122	mg/L	0.00835	N/A	(0%-20%)		09/10/22	07:27
Chromium	0.0500	U	ND	0.0485	mg/L	0.0721	95.6	(0%-20%)		09/09/22	21:03
Cobalt	0.0500	J	0.000306	0.0486	mg/L	2.08	96.5	(0%-20%)			
Iron	2.00	2.89		4.88	mg/L	0.836	99.5	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Lead	0.0500	U	ND	0.0486	mg/L	1.79	97	(0%-20%)	PRB	09/09/22	21:03
Lithium	0.0500	J	0.00420	0.0539	mg/L	0.593	99.5	(0%-20%)			
Magnesium	2.00		28.1	29.3	mg/L	2.16	N/A	(0%-20%)			
Manganese	0.0500		1.11	1.20	mg/L	2.24	N/A	(0%-20%)		09/10/22	07:27
Molybdenum	0.0500		0.00171	0.0574	mg/L	4.63	111	(0%-20%)		09/09/22	21:03
Potassium	2.00		9.82	11.8	mg/L	0.219	N/A	(0%-20%)			
Selenium	0.0500	U	ND	0.0480	mg/L	1.7	95.3	(0%-20%)			
Sodium	2.00		39.8	41.0	mg/L	1.38	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0483	mg/L	1.86	96.6	(0%-20%)			
QC1205178588 591355012 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/09/22	21:10
Arsenic		J	3.08	U	ND	ug/L	N/A	(0%-20%)			
Barium			58.4		11.4	ug/L	2.6	(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/10/22	10:58
Boron			36.0	J	8.09	ug/L	12.5	(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/09/22	21:10

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2310155										
Calcium		11800		2240	ug/L	4.96		(0%-20%)	PRB	09/10/22	07:30
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/22	21:10
Cobalt	J	0.306	U	ND	ug/L	N/A		(0%-20%)			
Iron		2890		586	ug/L	1.52		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	J	4.20	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		28100		5720	ug/L	1.69		(0%-20%)			
Manganese		111		19.8	ug/L	10.8		(0%-20%)		09/10/22	07:30
Molybdenum		1.71	J	0.431	ug/L	26.1		(0%-20%)		09/09/22	21:10
Potassium		9820		1880	ug/L	4.48		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		39800		8040	ug/L	.915		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2310246										
QC1205178778	591355002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/31/22	10:03

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2310246										
QC1205178777	LCS										
Mercury	0.00200			0.00196	mg/L		98.2	(80%-120%)	JP2	08/31/22	09:58
QC1205178776	MB										
Mercury			U	ND	mg/L					08/31/22	09:56
QC1205178779	591355002	MS									
Mercury	0.00200	U	ND	0.00116	mg/L		57.7*	(75%-125%)		08/31/22	10:04
QC1205178781	591355002	PS									
Mercury	2.00	U	ND	1.10	ug/L		54.6*	(80%-120%)		08/31/22	10:11
QC1205178780	591355002	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/31/22	10:06
Batch	2310248										
QC1205178784	590142001	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		JP2	08/31/22	10:55
QC1205178783	LCS										
Mercury	0.00200			0.00200	mg/L		99.9	(80%-120%)		08/31/22	10:52
QC1205178782	MB										
Mercury			U	ND	mg/L					08/31/22	10:47
QC1205178785	590142001	MS									
Mercury	0.00200	U	ND	0.00195	mg/L		96.6	(75%-125%)		08/31/22	10:57
QC1205178786	590142001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/31/22	10:59

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2310249										
QC1205178791	591355007 DUP										
Total Dissolved Solids		1990		2040	mg/L	2.54		(0%-5%)	CH6	08/30/22	14:49
QC1205178789	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		08/30/22	14:49
QC1205178788	MB										
Total Dissolved Solids			U	ND	mg/L					08/30/22	14:49
Batch	2310760										
QC1205179716	591355024 DUP										
Total Dissolved Solids		437		437	mg/L	0		(0%-5%)	CH6	08/31/22	14:39
QC1205179715	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/31/22	14:39
QC1205179714	MB										
Total Dissolved Solids			U	ND	mg/L					08/31/22	14:39
Titration and Ion Analysis											
Batch	2310459										
QC1205179134	591355012 DUP										
Alkalinity, Total as CaCO3		129		128	mg/L	0.311		(0%-20%)	HH2	09/07/22	13:57
Bicarbonate alkalinity (CaCO3)		129		128	mg/L	0.311		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205179131	LCS										
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		09/07/22	13:17
QC1205179135	591355012 MS										
Alkalinity, Total as CaCO3	100	129		228	mg/L		99	(80%-120%)		09/07/22	14:00

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2310460										
QC1205179137	591355008	DUP									
Alkalinity, Total as CaCO3		42.4		42.0	mg/L	0.948		(0%-20%)	HH2	09/07/22	17:47
Bicarbonate alkalinity (CaCO3)		42.4		42.0	mg/L	0.948		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205179139	591355026	DUP									
Alkalinity, Total as CaCO3		57.2		57.6	mg/L	0.697		(0%-20%)		09/07/22	18:09
Bicarbonate alkalinity (CaCO3)		57.2		57.6	mg/L	0.697		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205179136	LCS										
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		09/07/22	17:45
QC1205179138	591355008	MS									
Alkalinity, Total as CaCO3	100	42.4		146	mg/L		104	(80%-120%)		09/07/22	17:49
QC1205179140	591355026	MS									
Alkalinity, Total as CaCO3	100	57.2		156	mg/L		99	(80%-120%)		09/07/22	18:10

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
J											
N											
N/A											
N1											
ND											
NJ											
Q											
R											
R											
U											
X											
Y											
Z											
^											
d											
e											
h											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: October 3, 2022

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 590855

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2308691										
QC1205175345	590838001	DUP									
Chloride		2.18		2.13	mg/L	2.51		(0%-20%)	JLD1	08/25/22	13:28
Fluoride	U	ND	U	ND	mg/L	N/A					
Sulfate		0.452		0.418	mg/L	7.86 ^		(+/-0.400)			
QC1205175347	590857001	DUP									
Chloride		30.3		30.4	mg/L	0.158 ^		(+/-8.00)		08/26/22	03:54
Fluoride		0.187		0.160	mg/L	15.7 ^		(+/-0.100)		08/25/22	21:26
Sulfate		385		387	mg/L	0.559		(0%-20%)		08/26/22	03:54
QC1205175344	LCS										
Chloride	5.00			4.72	mg/L		94.3	(90%-110%)		08/25/22	12:28
Fluoride	2.50			2.30	mg/L		91.9	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205175343	MB										
Chloride			U	ND	mg/L					08/25/22	11:59
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205175346	590838001	PS									
Chloride	5.00	2.18		7.68	mg/L		110	(90%-110%)		08/25/22	13:58

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QC Summary

Workorder: 590855

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2308691										
Fluoride	2.50	U	ND	2.65	mg/L		106	(90%-110%)	JLD1	08/25/22	13:58
Sulfate	10.0		0.452	11.6	mg/L		111 *	(90%-110%)			
QC1205175348	590857001 PS										
Chloride	5.00		0.759	5.74	mg/L		99.7	(90%-110%)		08/26/22	04:24
Fluoride	2.50		0.187	2.68	mg/L		99.9	(90%-110%)		08/25/22	21:56
Sulfate	10.0		9.63	20.5	mg/L		109	(90%-110%)		08/26/22	04:24
Metals Analysis - ICPMS											
Batch	2308385										
QC1205174766	LCS										
Antimony	0.0500			0.0497	mg/L		99.4	(80%-120%)	BAJ	09/03/22	14:29
Arsenic	0.0500			0.0512	mg/L		102	(80%-120%)		09/02/22	23:30
Barium	0.0500			0.0504	mg/L		101	(80%-120%)			
Beryllium	0.0500			0.0588	mg/L		118	(80%-120%)		09/03/22	10:40
Boron	0.100			0.114	mg/L		114	(80%-120%)			
Cadmium	0.0500			0.0519	mg/L		104	(80%-120%)			
Calcium	2.00			2.18	mg/L		109	(80%-120%)			
Chromium	0.0500			0.0510	mg/L		102	(80%-120%)		09/02/22	23:30
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)			

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **590855**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Iron	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/02/22	23:30
Lead	0.0500			0.0527	mg/L		105	(80%-120%)			
Lithium	0.0500			0.0518	mg/L		104	(80%-120%)			
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		09/03/22	10:40
Manganese	0.0500			0.0512	mg/L		102	(80%-120%)			
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)			
Potassium	2.00			1.99	mg/L		99.7	(80%-120%)		09/02/22	23:30
Selenium	0.0500			0.0494	mg/L		98.9	(80%-120%)			
Sodium	2.00			2.22	mg/L		111	(80%-120%)			
Thallium	0.0500			0.0460	mg/L		92.1	(80%-120%)			
QC1205174765	MB										
Antimony			U	ND	mg/L					09/03/22	14:27
Arsenic			U	ND	mg/L					09/02/22	23:27
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					09/03/22	10:37
Boron			U	ND	mg/L						

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QC Summary

Workorder: 590855

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Cadmium			U	ND	mg/L				BAJ	09/03/22	10:37
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L					09/02/22	23:27
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L					09/03/22	10:37
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L					09/02/22	23:27
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205174767 590838001 MS											
Antimony	0.0500	U	ND	0.0501	mg/L		99.4	(75%-125%)		09/03/22	14:32

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 590855

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Arsenic	0.0500	U	ND	0.0500	mg/L		98	(75%-125%)	BAJ	09/02/22	23:37
Barium	0.0500		0.0120	0.0615	mg/L		99.1	(75%-125%)			
Beryllium	0.0500	U	ND	0.0613	mg/L		123	(75%-125%)		09/03/22	10:46
Boron	0.100	J	0.00532	0.120	mg/L		115	(75%-125%)			
Cadmium	0.0500	U	ND	0.0529	mg/L		106	(75%-125%)			
Calcium	2.00		4.65	7.04	mg/L		120	(75%-125%)			
Chromium	0.0500	J	0.00908	0.0603	mg/L		102	(75%-125%)		09/02/22	23:37
Cobalt	0.0500	J	0.000844	0.0514	mg/L		101	(75%-125%)			
Iron	2.00	J	0.0763	2.13	mg/L		103	(75%-125%)			
Lead	0.0500	U	ND	0.0508	mg/L		101	(75%-125%)			
Lithium	0.0500	U	ND	0.0545	mg/L		108	(75%-125%)			
Magnesium	2.00		4.86	7.40	mg/L		127*	(75%-125%)		09/03/22	10:46
Manganese	0.0500		0.0391	0.0930	mg/L		108	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0538	mg/L		108	(75%-125%)			
Potassium	2.00		0.439	2.44	mg/L		100	(75%-125%)		09/02/22	23:37

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **590855**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Selenium	0.0500	U	ND	0.0496	mg/L		99.2	(75%-125%)	BAJ	09/02/22	23:37
Sodium	2.00		3.36	5.52	mg/L		108	(75%-125%)			
Thallium	0.0500	U	ND	0.0463	mg/L		92.5	(75%-125%)			
QC1205174768	590838001 MSD										
Antimony	0.0500	U	ND	0.0492	mg/L	1.91	97.5	(0%-20%)		09/03/22	14:34
Arsenic	0.0500	U	ND	0.0495	mg/L	1.13	96.9	(0%-20%)		09/02/22	23:41
Barium	0.0500		0.0120	0.0611	mg/L	0.618	98.3	(0%-20%)			
Beryllium	0.0500	U	ND	0.0604	mg/L	1.57	121	(0%-20%)		09/03/22	10:49
Boron	0.100	J	0.00532	0.119	mg/L	1.12	114	(0%-20%)			
Cadmium	0.0500	U	ND	0.0516	mg/L	2.52	103	(0%-20%)			
Calcium	2.00		4.65	6.88	mg/L	2.39	111	(0%-20%)			
Chromium	0.0500	J	0.00908	0.0589	mg/L	2.28	99.7	(0%-20%)		09/02/22	23:41
Cobalt	0.0500	J	0.000844	0.0503	mg/L	2.26	98.9	(0%-20%)			
Iron	2.00	J	0.0763	2.09	mg/L	1.79	101	(0%-20%)			
Lead	0.0500	U	ND	0.0506	mg/L	0.396	101	(0%-20%)			
Lithium	0.0500	U	ND	0.0534	mg/L	2.01	105	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Magnesium	2.00	4.86		7.28	mg/L	1.68	121	(0%-20%)	BAJ	09/03/22	10:49
Manganese	0.0500	0.0391		0.0926	mg/L	0.447	107	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0536	mg/L	0.447	107	(0%-20%)			
Potassium	2.00	0.439		2.38	mg/L	2.49	97.1	(0%-20%)		09/02/22	23:41
Selenium	0.0500	U	ND	0.0478	mg/L	3.8	95.5	(0%-20%)			
Sodium	2.00	3.36		5.45	mg/L	1.34	105	(0%-20%)			
Thallium	0.0500	U	ND	0.0449	mg/L	2.98	89.8	(0%-20%)			
QC1205182314 590838001 PS											
Magnesium	2000	4860		7000	ug/L		107	(75%-125%)		09/03/22	10:52
QC1205174769 590838001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/03/22	14:37
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/02/22	23:48
Barium		12.0	J	2.29	ug/L	4.59		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/03/22	11:04
Boron		J	5.32	U	ND	ug/L	N/A	(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Calcium		4650		892	ug/L	4.21		(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Chromium	J	9.08	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/02/22	23:48
Cobalt	J	0.844	U	ND	ug/L	N/A		(0%-20%)			
Iron	J	76.3	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		4860		866	ug/L	11		(0%-20%)		09/03/22	11:04
Manganese		39.1		7.50	ug/L	3.96		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		439	J	85.4	ug/L	2.83		(0%-20%)		09/02/22	23:48
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		3360		579	ug/L	13.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2308549										
QC1205175103	590719007 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/22	10:26
QC1205175102	LCS										
Mercury		0.00200		0.00212	mg/L		106	(80%-120%)		08/26/22	10:09

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **590855**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2308549										
QC1205175101	MB										
Mercury			U	ND	mg/L				JP2	08/26/22	10:07
QC1205175104	590719007	MS									
Mercury	0.00200	U	ND	0.00152	mg/L		73.9*	(75%-125%)		08/26/22	10:28
QC1205175106	590719007	PS									
Mercury	2.00	U	ND	1.51	ug/L		73.5*	(80%-120%)		08/26/22	10:31
QC1205175105	590719007	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/26/22	10:30
Solids Analysis											
Batch	2309029										
QC1205176100	590857001	DUP									
Total Dissolved Solids			614	616	mg/L	0.325		(0%-5%)	CH6	08/26/22	15:30
QC1205176099	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/26/22	15:30
QC1205176098	MB										
Total Dissolved Solids			U	ND	mg/L					08/26/22	15:30
Titration and Ion Analysis											
Batch	2309339										
QC1205176799	590838001	DUP									
Alkalinity, Total as CaCO3			32.6	32.2	mg/L	1.23		(0%-20%)	HH2	09/04/22	13:40
Bicarbonate alkalinity (CaCO3)			32.6	32.2	mg/L	1.23		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205176801	590857001	DUP									
Alkalinity, Total as CaCO3		J	3.40	J	3.60	mg/L	5.71 ^	(+/-4.00)		09/04/22	13:53

GEL LABORATORIES LLC

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2309339										
Bicarbonate alkalinity (CaCO3)	J	3.40	J	3.60	mg/L	5.71 ^		(+/-4.00)	HH2	09/04/22	13:53
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205176798 LCS											
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		09/04/22	13:37
QC1205176800 590838001 MS											
Alkalinity, Total as CaCO3	100	32.6		136	mg/L		104	(80%-120%)		09/04/22	13:42
QC1205176802 590857001 MS											
Alkalinity, Total as CaCO3	100	J 3.40		107	mg/L		104	(80%-120%)		09/04/22	13:54

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 590855

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
X											
Y											
Z											
^											
d											
e											
h											

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: October 3, 2022

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 590845

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2308691										
QC1205175345	590838001	DUP									
Chloride		2.18		2.13	mg/L	2.51		(0%-20%)	JLD1	08/25/22	13:28
Fluoride	U	ND	U	ND	mg/L	N/A					
Sulfate		0.452		0.418	mg/L	7.86 ^		(+/-0.400)			
QC1205175347	590857001	DUP									
Chloride		30.3		30.4	mg/L	0.158 ^		(+/-8.00)		08/26/22	03:54
Fluoride		0.187		0.160	mg/L	15.7 ^		(+/-0.100)		08/25/22	21:26
Sulfate		385		387	mg/L	0.559		(0%-20%)		08/26/22	03:54
QC1205175344	LCS										
Chloride	5.00			4.72	mg/L		94.3	(90%-110%)		08/25/22	12:28
Fluoride	2.50			2.30	mg/L		91.9	(90%-110%)			
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)			
QC1205175343	MB										
Chloride			U	ND	mg/L					08/25/22	11:59
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205175346	590838001	PS									
Chloride	5.00	2.18		7.68	mg/L		110	(90%-110%)		08/25/22	13:58

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 590845

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2308691										
Fluoride	2.50	U	ND	2.65	mg/L		106	(90%-110%)	JLD1	08/25/22	13:58
Sulfate	10.0		0.452	11.6	mg/L		111 *	(90%-110%)			
QC1205175348 590857001 PS											
Chloride	5.00		0.759	5.74	mg/L		99.7	(90%-110%)		08/26/22	04:24
Fluoride	2.50		0.187	2.68	mg/L		99.9	(90%-110%)		08/25/22	21:56
Sulfate	10.0		9.63	20.5	mg/L		109	(90%-110%)		08/26/22	04:24
Metals Analysis - ICPMS											
Batch	2308385										
QC1205174766 LCS											
Antimony	0.0500			0.0497	mg/L		99.4	(80%-120%)	BAJ	09/03/22	14:29
Arsenic	0.0500			0.0512	mg/L		102	(80%-120%)		09/02/22	23:30
Barium	0.0500			0.0504	mg/L		101	(80%-120%)			
Beryllium	0.0500			0.0588	mg/L		118	(80%-120%)		09/03/22	10:40
Boron	0.100			0.114	mg/L		114	(80%-120%)			
Cadmium	0.0500			0.0519	mg/L		104	(80%-120%)			
Calcium	2.00			2.18	mg/L		109	(80%-120%)			
Chromium	0.0500			0.0510	mg/L		102	(80%-120%)		09/02/22	23:30
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)			

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QC Summary

Workorder: 590845

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Iron	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/02/22	23:30
Lead	0.0500			0.0527	mg/L		105	(80%-120%)			
Lithium	0.0500			0.0518	mg/L		104	(80%-120%)			
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		09/03/22	10:40
Manganese	0.0500			0.0512	mg/L		102	(80%-120%)			
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)			
Potassium	2.00			1.99	mg/L		99.7	(80%-120%)		09/02/22	23:30
Selenium	0.0500			0.0494	mg/L		98.9	(80%-120%)			
Sodium	2.00			2.22	mg/L		111	(80%-120%)			
Thallium	0.0500			0.0460	mg/L		92.1	(80%-120%)			
QC1205174765	MB										
Antimony			U	ND	mg/L					09/03/22	14:27
Arsenic			U	ND	mg/L					09/02/22	23:27
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					09/03/22	10:37
Boron			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Cadmium			U	ND	mg/L				BAJ	09/03/22	10:37
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L					09/02/22	23:27
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L					09/03/22	10:37
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L					09/02/22	23:27
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205174767	590838001	MS									
Antimony	0.0500	U	ND	0.0501	mg/L		99.4	(75%-125%)		09/03/22	14:32

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Arsenic	0.0500	U	ND	0.0500	mg/L		98	(75%-125%)	BAJ	09/02/22	23:37
Barium	0.0500		0.0120	0.0615	mg/L		99.1	(75%-125%)			
Beryllium	0.0500	U	ND	0.0613	mg/L		123	(75%-125%)		09/03/22	10:46
Boron	0.100	J	0.00532	0.120	mg/L		115	(75%-125%)			
Cadmium	0.0500	U	ND	0.0529	mg/L		106	(75%-125%)			
Calcium	2.00		4.65	7.04	mg/L		120	(75%-125%)			
Chromium	0.0500	J	0.00908	0.0603	mg/L		102	(75%-125%)		09/02/22	23:37
Cobalt	0.0500	J	0.000844	0.0514	mg/L		101	(75%-125%)			
Iron	2.00	J	0.0763	2.13	mg/L		103	(75%-125%)			
Lead	0.0500	U	ND	0.0508	mg/L		101	(75%-125%)			
Lithium	0.0500	U	ND	0.0545	mg/L		108	(75%-125%)			
Magnesium	2.00		4.86	7.40	mg/L		127*	(75%-125%)		09/03/22	10:46
Manganese	0.0500		0.0391	0.0930	mg/L		108	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0538	mg/L		108	(75%-125%)			
Potassium	2.00		0.439	2.44	mg/L		100	(75%-125%)		09/02/22	23:37

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Selenium	0.0500	U	ND	0.0496	mg/L		99.2	(75%-125%)	BAJ	09/02/22	23:37
Sodium	2.00		3.36	5.52	mg/L		108	(75%-125%)			
Thallium	0.0500	U	ND	0.0463	mg/L		92.5	(75%-125%)			
QC1205174768	590838001 MSD										
Antimony	0.0500	U	ND	0.0492	mg/L	1.91	97.5	(0%-20%)		09/03/22	14:34
Arsenic	0.0500	U	ND	0.0495	mg/L	1.13	96.9	(0%-20%)		09/02/22	23:41
Barium	0.0500		0.0120	0.0611	mg/L	0.618	98.3	(0%-20%)			
Beryllium	0.0500	U	ND	0.0604	mg/L	1.57	121	(0%-20%)		09/03/22	10:49
Boron	0.100	J	0.00532	0.119	mg/L	1.12	114	(0%-20%)			
Cadmium	0.0500	U	ND	0.0516	mg/L	2.52	103	(0%-20%)			
Calcium	2.00		4.65	6.88	mg/L	2.39	111	(0%-20%)			
Chromium	0.0500	J	0.00908	0.0589	mg/L	2.28	99.7	(0%-20%)		09/02/22	23:41
Cobalt	0.0500	J	0.000844	0.0503	mg/L	2.26	98.9	(0%-20%)			
Iron	2.00	J	0.0763	2.09	mg/L	1.79	101	(0%-20%)			
Lead	0.0500	U	ND	0.0506	mg/L	0.396	101	(0%-20%)			
Lithium	0.0500	U	ND	0.0534	mg/L	2.01	105	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Magnesium	2.00	4.86		7.28	mg/L	1.68	121	(0%-20%)	BAJ	09/03/22	10:49
Manganese	0.0500	0.0391		0.0926	mg/L	0.447	107	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0536	mg/L	0.447	107	(0%-20%)			
Potassium	2.00	0.439		2.38	mg/L	2.49	97.1	(0%-20%)		09/02/22	23:41
Selenium	0.0500	U	ND	0.0478	mg/L	3.8	95.5	(0%-20%)			
Sodium	2.00	3.36		5.45	mg/L	1.34	105	(0%-20%)			
Thallium	0.0500	U	ND	0.0449	mg/L	2.98	89.8	(0%-20%)			
QC1205182314 590838001 PS											
Magnesium	2000	4860		7000	ug/L		107	(75%-125%)		09/03/22	10:52
QC1205174769 590838001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/03/22	14:37
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/02/22	23:48
Barium		12.0	J	2.29	ug/L	4.59		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/03/22	11:04
Boron		J	5.32	U	ND	ug/L	N/A	(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Calcium		4650		892	ug/L	4.21		(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2308385										
Chromium	J	9.08	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/02/22	23:48
Cobalt	J	0.844	U	ND	ug/L	N/A		(0%-20%)			
Iron	J	76.3	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		4860		866	ug/L	11		(0%-20%)		09/03/22	11:04
Manganese		39.1		7.50	ug/L	3.96		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		439	J	85.4	ug/L	2.83		(0%-20%)		09/02/22	23:48
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		3360		579	ug/L	13.8		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2308555										
QC1205175118	589727024 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/22	11:15
QC1205175117	LCS										
Mercury	0.00200			0.00220	mg/L		110	(80%-120%)		08/26/22	11:07

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2308555										
QC1205175116	MB										
Mercury			U	ND	mg/L				JP2	08/26/22	11:05
QC1205175119	589727024	MS									
Mercury	0.00200	U	ND	0.00222	mg/L		110	(75%-125%)		08/26/22	11:17
QC1205175120	589727024	SDILT									
Mercury		U	ND	U	ug/L	N/A		(0%-10%)		08/26/22	11:19
Solids Analysis											
Batch	2309029										
QC1205176100	590857001	DUP									
Total Dissolved Solids			614	616	mg/L	0.325		(0%-5%)	CH6	08/26/22	15:30
QC1205176099	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/26/22	15:30
QC1205176098	MB										
Total Dissolved Solids			U	ND	mg/L					08/26/22	15:30
Titration and Ion Analysis											
Batch	2309339										
QC1205176799	590838001	DUP									
Alkalinity, Total as CaCO3			32.6	32.2	mg/L	1.23		(0%-20%)	HH2	09/04/22	13:40
Bicarbonate alkalinity (CaCO3)			32.6	32.2	mg/L	1.23		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	mg/L	N/A					
QC1205176801	590857001	DUP									
Alkalinity, Total as CaCO3		J	3.40	J	3.60	mg/L	5.71 ^	(+/-4.00)		09/04/22	13:53
Bicarbonate alkalinity (CaCO3)		J	3.40	J	3.60	mg/L	5.71 ^	(+/-4.00)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2309339										
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A			HH2	09/04/22	13:53
QC1205176798 LCS Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		09/04/22	13:37
QC1205176800 590838001 MS Alkalinity, Total as CaCO3	100	32.6		136	mg/L		104	(80%-120%)		09/04/22	13:42
QC1205176802 590857001 MS Alkalinity, Total as CaCO3	100	J	3.40	107	mg/L		104	(80%-120%)		09/04/22	13:54

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Y											
Z											
^											
d											
e											
h											

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 591355**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2310153

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2310152

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
1205178579	Method Blank (MB)ICP-MS
1205178580	Laboratory Control Sample (LCS)
1205178583	591351001(BRGWC-17SL) Serial Dilution (SD)
1205178581	591351001(BRGWC-17SS) Matrix Spike (MS)
1205178582	591351001(BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	591355							
	001	002	003	005	006	007	010	011
Boron	5X	5X	5X	10X	20X	5X	20X	5X
Calcium	5X	5X	10X	10X	20X	5X	1X	5X
Cobalt	1X	1X	5X	1X	1X	5X	1X	1X
Magnesium	5X	5X	5X	1X	20X	5X	1X	5X
Manganese	100X	100X	1000X	10X	20X	1000X	1X	1000X
Sodium	1X	1X	5X	1X	1X	5X	1X	1X

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2310155

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2310154

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205178584	Method Blank (MB)ICP-MS
1205178585	Laboratory Control Sample (LCS)
1205178588	591355012(PZ-51DL) Serial Dilution (SD)
1205178586	591355012(PZ-51DS) Matrix Spike (MS)
1205178587	591355012(PZ-51DSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020A/6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 591355014 (PZ-51S), 591355015 (FD-02), 591355017 (EB-06), 591355021 (FB-03), 591355022 (PZ-63I), 591355024 (BRGWC-32S), 591355025 (EB-07) and 591355026 (BRGWC-52I).

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 591355012 (PZ-51D), 591355013 (PZ-61I), 591355016 (PZ-50D), 591355018 (PZ-62I), 591355019 (PZ-59I), 591355020 (BRGWC-27I), 591355022 (PZ-63I), 591355023 (PZ-57I), 591355024 (BRGWC-32S) and 591355026 (BRGWC-52I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 591355019 (PZ-59I) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	591355									
	012	013	016	018	019	020	022	023	024	026
Barium	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Boron	1X	5X	5X	5X	1X	10X	10X	5X	10X	20X
Calcium	10X	5X	5X	5X	100X	10X	1X	5X	1X	1X
Cobalt	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Iron	1X	1X	1X	1X	100X	1X	1X	1X	1X	1X
Lead	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Magnesium	1X	5X	5X	5X	5X	1X	1X	1X	1X	1X
Manganese	10X	1000X	100X	100X	100X	1X	10X	20X	1X	1X
Sodium	1X	5X	5X	1X	5X	1X	1X	1X	1X	1X
Thallium	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2310246

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2310245

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
1205178776	Method Blank (MB)CVAA
1205178777	Laboratory Control Sample (LCS)
1205178780	591355002(PZ-58IL) Serial Dilution (SD)
1205178778	591355002(PZ-58ID) Sample Duplicate (DUP)
1205178779	591355002(PZ-58IS) Matrix Spike (MS)
1205178781	591355002(PZ-58IPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205178779 (PZ-58IMS)	Mercury	57.7* (75%-125%)

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205178781 (PZ-58IPS)	Mercury	54.6* (80%-120%)

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2310248

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2310247

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205178782	Method Blank (MB)CVAA
1205178783	Laboratory Control Sample (LCS)
1205178786	590142001(NonSDGL) Serial Dilution (SD)
1205178784	590142001(NonSDGD) Sample Duplicate (DUP)
1205178785	590142001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2310523

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
1205179258	Method Blank (MB)
1205179259	Laboratory Control Sample (LCS)
1205179260	591351001(BRGWC-17S) Sample Duplicate (DUP)
1205179261	591351001(BRGWC-17S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205179260 (BRGWC-17SDUP), 1205179261 (BRGWC-17SPS), 591355001 (FD-01), 591355002 (PZ-58I) and 591355003 (PZ-60I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355		
	001	002	003
Chloride	5X	5X	5X
Sulfate	100X	100X	200X

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2310658

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
1205179523	Method Blank (MB)

1205179524	Laboratory Control Sample (LCS)
1205179525	591355005(BRGWC-29I) Sample Duplicate (DUP)
1205179526	591355005(BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205179526 (BRGWC-29IPS)	131* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205179525 (BRGWC-29IDUP), 1205179526 (BRGWC-29IPS), 591355005 (BRGWC-29I), 591355006 (BRGWC-30I), 591355007 (BRGWC-50), 591355008 (FD-03), 591355009 (BRGWC-45), 591355010 (PZ-44), 591355011 (PZ-51I), 591355012 (PZ-51D) and 591355013 (PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355								
	005	006	007	008	009	010	011	012	013
Chloride	1X	1X	5X	10X	10X	1X	2X	50X	10X
Sulfate	100X	100X	100X	10X	10X	10X	100X	50X	200X

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2310688

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I

591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179577	Method Blank (MB)
1205179578	Laboratory Control Sample (LCS)
1205179579	591355015(FD-02) Sample Duplicate (DUP)
1205179580	591355015(FD-02) Post Spike (PS)
1205179581	591355026(BRGWC-52I) Sample Duplicate (DUP)
1205179582	591355026(BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205179580 (FD-02PS)	111* (90%-110%)
	1205179582 (BRGWC-52IPS)	117* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205179581 (BRGWC-52IDUP), 1205179582 (BRGWC-52IPS), 591355016 (PZ-50D), 591355018 (PZ-62I), 591355019 (PZ-59I), 591355020 (BRGWC-27I), 591355022 (PZ-63I), 591355023 (PZ-57I), 591355024 (BRGWC-32S) and 591355026 (BRGWC-52I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355							
	016	018	019	020	022	023	024	026
Chloride	100X	1X	200X	1X	1X	1X	1X	1X
Sulfate	100X	50X	200X	20X	20X	40X	20X	10X

Miscellaneous Information

Manual Integrations

Samples 591355018 (PZ-62I) and 591355019 (PZ-59I) were manually integrated to correctly position the

baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2310249

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
1205178788	Method Blank (MB)
1205178789	Laboratory Control Sample (LCS)
1205178791	591355007(BRGWC-50) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2310760

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I

591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179714	Method Blank (MB)
1205179715	Laboratory Control Sample (LCS)
1205179716	591355024(BRGWC-32S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2310459

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
1205179131	Laboratory Control Sample (LCS)
1205179134	591355012(PZ-51D) Sample Duplicate (DUP)
1205179135	591355012(PZ-51D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2310460

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179136	Laboratory Control Sample (LCS)
1205179137	591355008(FD-03) Sample Duplicate (DUP)
1205179138	591355008(FD-03) Matrix Spike (MS)
1205179139	591355026(BRGWC-52I) Sample Duplicate (DUP)
1205179140	591355026(BRGWC-52I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 590855**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2308385

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2308382

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205174765	Method Blank (MB) ICP-MS
1205174766	Laboratory Control Sample (LCS)
1205174769	590838001(BRGWA-2SL) Serial Dilution (SD)
1205174767	590838001(BRGWA-2SS) Matrix Spike (MS)
1205174768	590838001(BRGWA-2SSD) Matrix Spike Duplicate (MSD)
1205182314	590838001(BRGWA-2SPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or

non-homogeneity.

Sample	Analyte	Value
1205174767 (BRGWA-2SMS)	Magnesium	127* (75%-125%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 590855004 (BRGWC-25I) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	590855
	004
Boron	20X
Calcium	20X
Manganese	20X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2308549

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2308547

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205175101	Method Blank (MB)CVAA
1205175102	Laboratory Control Sample (LCS)
1205175105	590719007(NonSDGL) Serial Dilution (SD)
1205175103	590719007(NonSDGD) Sample Duplicate (DUP)
1205175104	590719007(NonSDGS) Matrix Spike (MS)
1205175106	590719007(NonSDGPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205175104 (Non SDG 590719007MS)	Mercury	73.9* (75%-125%)

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205175106 (Non SDG 590719007PS)	Mercury	73.5* (80%-120%)

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2308691

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205175343	Method Blank (MB)
1205175344	Laboratory Control Sample (LCS)
1205175345	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205175346	590838001(BRGWA-2S) Post Spike (PS)
1205175347	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205175348	590857001(BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205175346 (BRGWA-2SPS)	111* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205175347 (BRGWC-33SDUP), 1205175348 (BRGWC-33SPS) and 590855004 (BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	590855
	004
Sulfate	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2309029

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205176098	Method Blank (MB)
1205176099	Laboratory Control Sample (LCS)
1205176100	590857001(BRGWC-33S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2309339

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205176798	Laboratory Control Sample (LCS)
1205176799	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205176800	590838001(BRGWA-2S) Matrix Spike (MS)
1205176801	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205176802	590857001(BRGWC-33S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 590845**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2308385

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2308382

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205174765	Method Blank (MB) ICP-MS
1205174766	Laboratory Control Sample (LCS)
1205174769	590838001(BRGWA-2SL) Serial Dilution (SD)
1205174767	590838001(BRGWA-2SS) Matrix Spike (MS)
1205174768	590838001(BRGWA-2SSD) Matrix Spike Duplicate (MSD)
1205182314	590838001(BRGWA-2SPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205174767 (BRGWA-2SMS)	Magnesium	127* (75%-125%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 590845002 (BRGWC-47) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	590845
	002
Boron	10X
Calcium	10X
Magnesium	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2308555

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2308553

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205175116	Method Blank (MB)CVAA
1205175117	Laboratory Control Sample (LCS)
1205175120	589727024(NonSDGL) Serial Dilution (SD)
1205175118	589727024(NonSDGD) Sample Duplicate (DUP)
1205175119	589727024(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2308691

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205175343	Method Blank (MB)
1205175344	Laboratory Control Sample (LCS)
1205175345	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205175346	590838001(BRGWA-2S) Post Spike (PS)
1205175347	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205175348	590857001(BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205175346 (BRGWA-2SPS)	111* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205175347 (BRGWC-33SDUP), 1205175348 (BRGWC-33SPS), 590845001 (BRGWA-23S) and 590845002 (BRGWC-47) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	590845	
	001	002
Sulfate	2X	200X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2309029

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205176098	Method Blank (MB)
1205176099	Laboratory Control Sample (LCS)
1205176100	590857001(BRGWC-33S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2309339

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205176798	Laboratory Control Sample (LCS)
1205176799	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205176800	590838001(BRGWA-2S) Matrix Spike (MS)
1205176801	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205176802	590857001(BRGWC-33S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds ~ BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Collected By: *Jordan Bonstorf* * Send Results To: SCS & Geosyntec Contacts
Anna Schwab

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (hh:mm)	QC Code (3)	Field Filtered (2)	Sample Matrix (4)	Radioactive (if yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	EPA 300, SM 2540C	Total & Breath Air	Metals *	EPA 6020B, 6010D	Radium 226 & 228	SW-846 9315, 9320	Preservative Type (6)	Comments
FD-01	08/24/22	—	G	N	WG			7	✓	✓	✓	✓	✓	NA	field pH = NA	Note: extra sample is required for sample specific QC
PZ-58I	08/24/22	1030	G	N	WG			7	✓	✓	✓	✓	✓	3.81	field pH = 3.81	
PZ-60I	08/24/22	1220	G	N	WG			7	✓	✓	✓	✓	✓	4.55	field pH = 4.55	
FB-02	08/24/22	1555	G	N	WG			7	✓	✓	✓	✓	✓	N/A	field pH = N/A	
BR6WC-29I	08/24/22	1710	G	N	WG			7	✓	✓	✓	✓	✓	4.39	field pH = 4.39	
BR6WC-30I	08/24/22	1609	G	N	WG			7	✓	✓	✓	✓	✓	6.38	field pH = 6.38	
BR6WC-50	08/24/22	1451	G	N	WG			7	✓	✓	✓	✓	✓	5.07	field pH = 5.07	
FD-03	08/25/22	—	G	N	WG			7	✓	✓	✓	✓	✓	N/A	field pH = N/A	
BR6WC-45	08/25/22	1010	G	N	WG			7	✓	✓	✓	✓	✓	5.74	field pH = 5.74	
PZ-44	08/25/22	1131	G	N	WG			7	✓	✓	✓	✓	✓	6.06	field pH = 6.06	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	8/29/22	1515	<i>[Signature]</i>	8/29/22	1515

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes.)
 Waste code(s): _____
 TSCA Regulated: PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 Pb = Lead
 Other: OT = Other / Unknown
 Description: (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



GEL Laboratories LLC
Chemistry | Radiochemistry | Radioassay | Specialty Analytics

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Chain of Custody and Analytical Request

GEL Work Order Number: *404-506-7116* **GEL Project Manager:** *Erin Trent*

Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds *BCD*
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Phone #: 404-506-7116
Fax #:
Collected By: *Hunter Auld + Angie Schnitzler* Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (e)	Field Filtered (d)	Sample Matrix (e)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (e) (Fill in the number of containers for each test)				Comments	
						Radioactive (if yes, please supply isotopic info)	(7) Known or Possible Hazards		Z	Z	Z	Z		
<i>PZ-51I</i>	<i>08/24/22</i>	<i>1234</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>5.49</i>
<i>PZ-51D</i>	<i>08/24/22</i>	<i>1049</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>7.15</i> <i>7.15</i>
<i>PZ-60I</i>	<i>08/24/22</i>	<i>1402</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>5.14</i>
<i>PZ-51S</i>	<i>08/24/22</i>	<i>1609</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>6.12</i>
<i>FD-0Z</i>	<i>08/24/22</i>	<i>---</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>---</i>
<i>PZ-50D</i>	<i>08/25/22</i>	<i>0951</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>6.11</i>
<i>EB-06</i>	<i>08/25/22</i>	<i>0942</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>---</i>
<i>PZ-60I</i>	<i>08/25/22</i>	<i>1121</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>5.50</i>
<i>PZ-59I</i>	<i>08/25/22</i>	<i>1316</i>	<i>G</i>	<i>N</i>	<i>WG</i>			<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>7</i>	field pH = <i>3.72</i>

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Received by (signed) _____ Date _____ Time _____

1. *[Signature]* *8/24/22 1515* *[Signature]* *8/24/22 1515*

2. _____ Date _____ Time _____

3. _____ Date _____ Time _____

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Pa,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Hg = Mercury
Se = Selenium
Ag = Silver
MIR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

Listed Waste
LW = Listed Waste
Waste code(s): _____

TSCA Regulated
PCB = Polychlorinated biphenyls

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds B/C/D
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Collected By: Taylor Coble / Anna Schmittke Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	OC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radioreactive (If Yes, please supply isotopic info)	Should this sample be considered:	Total number of containers	EPA 300, SM 2540C Cl, F, SO4, TDS	Total & Biocarb Alk SM 2320B	Metals * EPA 6020B, 6010D	Radium 226 & 228 SW-846 9315, 9320	Preservative Type (6)	Comments
<u>BRGWC-27I</u>	<u>08/25/22</u>	<u>1012</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>6.03</u>
<u>FB-03</u>	<u>08/25/22</u>	<u>1045</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>—</u>
<u>PZ-63I</u>	<u>08/25/22</u>	<u>1220</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>5.65</u>
<u>PZ-57I</u>	<u>08/25/22</u>	<u>1055</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>5.91</u>
<u>BRGWC-325</u>	<u>08/25/22</u>	<u>1235</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>6.06</u>
<u>EB-07</u>	<u>08/25/22</u>	<u>1245</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>—</u>
<u>BRGWC-52I</u>	<u>08/25/22</u>	<u>1255</u>	<u>G</u>	<u>N</u>	<u>WG</u>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		field pH = <u>6.21</u>
														field pH = _____
														field pH = _____
														field pH = _____

Chain of Custody Signatures

Relinquished By (Signed) _____ Date 8/29/22 Time 1515 Received by (signed) Durgesha Satnam Spajz Time 1515

2. _____ Date _____ Time _____

3. _____ Date _____ Time _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Ti,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
 As = Arsenic Hg= Mercury
 Ba = Barium Se= Selenium
 Cd = Cadmium Ag= Silver
 Cr = Chromium MR= Misc. RCRA metals
 Pb = Lead biphonyls

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s): _____

TSCA Regulated
 PCB = Polychlorinated biphenyls

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: <u>CPCC</u>		SDG/AR/COC/Work Order: <u>591355</u>		<u>ET</u>	
Received By: <u>Thyasia Tatum</u>		Date Received: <u>8/29/20</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier <u>Other</u>			
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures recorded in Celsius TEMP: <u>1C</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-20</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials AM Date 8/31/20 Page 1 of 7

590855, 590856

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number: _____
 PO Number: _____



Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (0)	Sample Matrix (0)	Radioactive (If yes, please supply isotopic info)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRGWA-12I	08/23/22	1143	G	N	WG		(7) Known or possible Hazards	7	EPA 300, SM 2540C Cl, F, SO4, TDS		Note: extra sample is required for sample specific QC
FB-01	08/23/22	1315	G	N	WQ			7	Total & Bleach Alk SM 2320B		field pH = 6.39
BRGWA-12S	08/23/22	1338	G	N	WG			7	EPA 6020B, 6010D Metals *		field pH = NA
BRGW-25I	08/23/22	1541	G	N	WG			7	Radium 226 & 228 SW-846 9315, 9320		field pH = 5.90
											field pH = 6.11
											field pH =
											field pH =
											field pH =
											field pH =
											field pH =
											field pH =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/22	<i>[Signature]</i>	8/24/22	12:27
<i>[Signature]</i>	8/24/22	<i>[Signature]</i>	8/24/22	1:27
<i>[Signature]</i>	8/24/22	<i>[Signature]</i>	8/24/22	1:27

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lacinate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B, 7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).
 6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other
RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

590851, 590855, 590856, 590857, 59085

Client: GPOC SDG/AR/COC/Work Order: 590838, 590840, 590845
 Received By: Thyasia Tatum Date Received: 8/24/22
 Carrier and Tracking Number: _____
 Circle Applicable: FedEx Express, FedEx Ground, UPS, Field Services, Courier, Other

Suspected Hazard Information

Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2°C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-20</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

590845, 590851

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *Jordan Berisford*



Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
 Chain of Custody and Analytical Request

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager: Erin Trent**
 Phone # 404-506-7116 Fax # _____

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments
						Radioactive (If yes, please supply isotopic info)	(7) Known or possible Hazards		Z	Z	Z	Z	
BR6wA-25s	08/25/22	1345	G	N	WG			7	EPA 6020B, 6010D Metals *	SW-846 9315, 9320 Radium 226 & 228			field pH = 5.66
BR6wC-47	08/23/22	1520	G	N	WG			7	EPA 300, SM 2540C Cl, F, SO4, TDS				field pH = 5.61
EB-05	08/25/22	1455	G	N	WG			7					field pH = N/A
													field pH =
													field pH =
													field pH =
													field pH =
													field pH =
													field pH =
													field pH =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	8/24/22	<i>[Signature]</i>	8/24/22	0845
<i>[Signature]</i>	8/24/22	<i>[Signature]</i>	8/24/22	1327

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered

Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix

Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

590851, 590855, 590856, 590857, 590858

Client: GPEC SDG/AR/COC/Work Order: 590838, 590840, 590845,
 Received By: Thyasia Tatum Date Received: 8/24/02

Carrier and Tracking Number _____
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information Yes No
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 B) Did the client designate the samples to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.
 C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): Φ CPM / mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.
 E) Did the RSO identify possible hazards? Yes No If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures recorded in Celsius TEMP: <u>2C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-20</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials _____ Date _____ Page _____ of _____

List of current GEL Certifications as of 03 October 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-137
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

February 27, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 609212,608413,608602,608803 and 608969

Dear Joju Abraham:

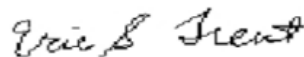
GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 25, 2023, January 26, 2023, January 27, 2023, January 31, 2023 and February 02, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 608602 GEL Work Order: 608602

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609212 GEL Work Order: 609212

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 608803 GEL Work Order: 608803

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 608413 GEL Work Order: 608413

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 608969 GEL Work Order: 608969

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12S	Project: GPCC00101
Sample ID: 608413001	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-JAN-23 13:10	
Receive Date: 25-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.97			SU			AJ1	01/24/23	1310	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1310	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.79	0.0670	0.200	mg/L		1	HXC1	01/25/23	1624	2374002	3
Fluoride	J	0.0926	0.0330	0.100	mg/L		1					
Sulfate		0.628	0.133	0.400	mg/L		1					
Nitrate-N		0.945	0.165	0.500	mg/L		5	HXC1	01/25/23	2234	2374002	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1044	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1445	2374301	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00530	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.28	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1905	2374301	7
Barium		0.0576	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.62	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00103	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.54	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.52	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12S Project: GPCC00101
Sample ID: 608413001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		59.0	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.0	1.45	4.00	mg/L			EK1	01/30/23	1520	2375521	10
Bicarbonate alkalinity (CaCO3)		32.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12S
Sample ID: 608413001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12I	Project: GPCC00101
Sample ID: 608413002	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-JAN-23 14:50	
Receive Date: 25-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.48			SU			AJ1	01/24/23	1450	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1450	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.49	0.0670	0.200	mg/L		1	HXC1	01/25/23	1655	2374002	3
Fluoride		0.214	0.0330	0.100	mg/L		1					
Sulfate		1.80	0.133	0.400	mg/L		1					
Nitrate-N		0.438	0.0660	0.200	mg/L		2	HXC1	01/26/23	0007	2374002	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1046	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1448	2374301	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00884	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00529	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.98	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000388	0.000200	0.00100	mg/L	1.00	1					
Antimony		0.0245	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1908	2374301	7
Barium		0.0512	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		13.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1					
Potassium		3.61	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12I Project: GPCC00101
Sample ID: 608413002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		114	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.2	1.45	4.00	mg/L			EK1	01/30/23	1528	2375521	10
Bicarbonate alkalinity (CaCO3)		65.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-12I
Sample ID: 608413002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S	Project: GPCC00101
Sample ID: 608413003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-JAN-23 14:15	
Receive Date: 25-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.76			SU			AJ1	01/24/23	1415	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1415	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		0.261	0.0660	0.200	mg/L		2	HXC1	01/26/23	0037	2374002	3
Chloride		2.88	0.0670	0.200	mg/L		1	HXC1	01/25/23	1726	2374002	4
Fluoride		0.231	0.0330	0.100	mg/L		1					
Sulfate		19.7	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1048	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1912	2374301	6
Barium		0.0468	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.97	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		10.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1450	2374301	7
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0437	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00749	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.43	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S	Project: GPCC00101
Sample ID: 608413003	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		102	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L			EK1	01/30/23	1531	2375521	10
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 608413003

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S	Project: GPCC00101
Sample ID: 608413004	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-JAN-23 15:41	
Receive Date: 25-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.05			SU			AJ1	01/24/23	1541	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1541	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		247	2.66	8.00	mg/L		20	HXC1	01/26/23	0108	2374002	3
Chloride		4.49	0.0670	0.200	mg/L		1	HXC1	01/25/23	1757	2374002	4
Fluoride	J	0.0820	0.0330	0.100	mg/L		1					
Nitrate-N		0.223	0.0660	0.200	mg/L		2	HXC1	01/26/23	0139	2374002	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1049	2374419	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1915	2374301	7
Barium		0.0182	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.70	0.0800	0.300	mg/L	1.00	1					
Selenium		0.198	0.00150	0.00500	mg/L	1.00	1					
Sodium		27.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.11	0.0520	0.150	mg/L	1.00	10	SKJ	02/03/23	1424	2374301	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1538	2374301	9
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00700	0.00300	0.0100	mg/L	1.00	1					
Magnesium		32.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S	Project: GPCC00101
Sample ID: 608413004	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		425	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		34.0	1.45	4.00	mg/L			EK1	01/30/23	1540	2375521	12
Bicarbonate alkalinity (CaCO3)		34.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 608413004

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 608602001 Client ID: GPCC001
Matrix: WG
Collect Date: 25-JAN-23 13:25
Receive Date: 26-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.13			SU			EOS1	01/25/23	1325	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1325	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	U	ND	0.165	0.500	mg/L		5	HXC1	01/26/23	2255	2374768	3
Sulfate		41.0	0.665	2.00	mg/L		5					
Chloride		5.84	0.0670	0.200	mg/L		1	HXC1	01/26/23	1527	2374768	4
Fluoride		0.130	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1227	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.47	0.0520	0.150	mg/L	1.00	10	SKJ	02/08/23	1739	2374786	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1836	2374786	7
Lithium	J	0.00728	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.396	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1103	2374786	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1910	2374786	9
Arsenic	J	0.00221	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0498	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		25.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0504	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 608602001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		156	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.0	1.45	4.00	mg/L			EK1	02/06/23	1119	2378173	12
Bicarbonate alkalinity (CaCO3)		79.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	608602001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 608602002 Client ID: GPCC001
Matrix: WG
Collect Date: 25-JAN-23 12:00
Receive Date: 26-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.151	0.0330	0.100	mg/L		1	HXC1	01/26/23	1557	2374768	1
Nitrate-N	J	0.0824	0.0330	0.100	mg/L		1					
Chloride		27.3	0.670	2.00	mg/L		10	HXC1	01/27/23	0024	2374768	2
Sulfate		102	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1232	2375028	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1754	2374786	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0702	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0362	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00261	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0846	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000493	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1901	2374786	5
Lithium	J	0.00313	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		253	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	7

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 608602002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		39.4	1.45	4.00	mg/L			EK1	02/06/23	1123	2378173	8
Bicarbonate alkalinity (CaCO ₃)		39.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45	Project: GPCC00101
Sample ID: 608602003	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-JAN-23 14:40	
Receive Date: 26-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.82			SU			EOS1	01/25/23	1440	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1440	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	J	0.126	0.0660	0.200	mg/L		2	HXC1	01/27/23	0054	2374768	3
Chloride		27.4	0.670	2.00	mg/L		10	HXC1	01/27/23	0124	2374768	4
Sulfate		102	1.33	4.00	mg/L		10					
Fluoride		0.163	0.0330	0.100	mg/L		1	HXC1	01/26/23	1627	2374768	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1233	2375028	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1905	2374786	7
Lithium	J	0.00333	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1757	2374786	8
Arsenic	J	0.00225	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0695	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0355	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00258	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0752	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000595	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.3	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000545	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 608602003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		251	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.4	1.45	4.00	mg/L			EK1	02/06/23	1132	2378173	11
Bicarbonate alkalinity (CaCO3)		38.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	608602003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 608602004 Client ID: GPCC001
Matrix: WQ
Collect Date: 25-JAN-23 16:30
Receive Date: 26-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	01/26/23	1657	2374768	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0803	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1235	2375028	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1908	2374786	3
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1801	2374786	4
Arsenic	J	0.00285	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	6

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 608602004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1203	2378173	7
Bicarbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 608602005 Client ID: GPCC001
Matrix: WQ
Collect Date: 25-JAN-23 13:05
Receive Date: 26-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	01/26/23	1726	2374768	1
Fluoride	J	0.0641	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1237	2375028	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1805	2374786	3
Arsenic	J	0.00294	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1912	2374786	4
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	6

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-01	Project: GPCC00101
Sample ID: 608602005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1209	2378173	7
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50	Project: GPCC00101
Sample ID: 608602006	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-JAN-23 13:25	
Receive Date: 26-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.18			SU			EOS1	01/25/23	1325	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1325	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.7	0.670	2.00	mg/L		10	HXC1	01/27/23	0324	2374768	3
Fluoride		0.432	0.0330	0.100	mg/L		1	HXC1	01/26/23	1756	2374768	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1290	26.6	80.0	mg/L		200	HXC1	01/27/23	0154	2374768	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1238	2375028	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.383	0.0260	0.0750	mg/L	1.00	5	SKJ	02/08/23	1819	2374786	7
Calcium		216	0.400	1.00	mg/L	1.00	5					
Cobalt		1.35	0.00150	0.00500	mg/L	1.00	5					
Magnesium		153	0.0500	0.150	mg/L	1.00	5					
Sodium		51.5	0.400	1.25	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1928	2374786	8
Arsenic	J	0.00236	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0165	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00726	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.193	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.8	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00189	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		79.6	0.100	0.500	mg/L	1.00	100	SKJ	02/08/23	1816	2374786	9
Beryllium		0.00962	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1916	2374786	10
Lithium		0.0542	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 608602006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2040	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.2	1.45	4.00	mg/L			EK1	02/06/23	1212	2378173	13
Bicarbonate alkalinity (CaCO3)		14.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	EPA 300.0		
6	SW846 7470A		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SM 2540C		
12	SM 4500-S (2-) D		
13	SM 2320B		

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50
Sample ID: 608602006

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I	Project: GPCC00101
Sample ID: 608602007	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-JAN-23 15:10	
Receive Date: 26-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.25			SU			EOS1	01/25/23	1510	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/25/23	1510	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		145	2.66	8.00	mg/L		20	HXC1	01/27/23	0354	2374768	3
Chloride		6.35	0.0670	0.200	mg/L		1	HXC1	01/26/23	1826	2374768	4
Fluoride		0.169	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1240	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.79	0.104	0.300	mg/L	1.00	20	SKJ	02/08/23	1823	2374786	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1919	2374786	7
Lithium		0.0186	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.560	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1113	2374786	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1938	2374786	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0249	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.34	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		19.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000609	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.97	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I Project: GPCC00101
Sample ID: 608602007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		276	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1541	2375142	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		46.0	1.45	4.00	mg/L			EK1	02/06/23	1217	2378173	12
Bicarbonate alkalinity (CaCO3)		46.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	SW846 7470A		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SM 2540C		
11	SM 4500-S (2-) D		
12	SM 2320B		

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 608602007

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I	Project: GPCC00101
Sample ID: 608602008	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-JAN-23 13:45	
Receive Date: 26-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.63			SU			EOS1	01/25/23	1345	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1345	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.81	0.0670	0.200	mg/L		1	HXC1	01/26/23	1856	2374768	3
Fluoride		0.152	0.0330	0.100	mg/L		1					
Nitrate-N		0.659	0.0330	0.100	mg/L		1					
Sulfate		150	2.66	8.00	mg/L		20	HXC1	01/27/23	0423	2374768	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1241	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1942	2374786	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00711	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		6.59	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.89	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.14	0.0520	0.150	mg/L	1.00	10	SKJ	02/08/23	1826	2374786	7
Calcium		55.7	0.800	2.00	mg/L	1.00	10					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1923	2374786	8
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.885	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1115	2374786	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I Project: GPCC00101
Sample ID: 608602008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		260	2.38	10.0	mg/L		CH6	02/01/23	1135	2376740		10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 JW2	01/30/23	1541	2375142		11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L		EK1	02/06/23	1220	2378173		12
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 608602008

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I	Project: GPCC00101
Sample ID: 608803001	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 10:15	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	01/26/23	1015	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1015	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.96	0.0670	0.200	mg/L		1	JLD1	01/27/23	1731	2375330	3
Fluoride		0.202	0.0330	0.100	mg/L		1					
Nitrate-N		1.17	0.165	0.500	mg/L		5	JLD1	01/28/23	0216	2375330	4
Sulfate		182	2.66	8.00	mg/L		20	JLD1	01/28/23	0247	2375330	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1013	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.45	0.104	0.300	mg/L	1.00	20	PRB	02/04/23	1942	2375324	7
Calcium		57.6	1.60	4.00	mg/L	1.00	20					
Manganese		1.71	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2145	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0293	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00320	0.000300	0.00100	mg/L	1.00	1					
Iron		0.453	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000920	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.59	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I	Project: GPCC00101
Sample ID: 608803001	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		339	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		82.8	1.45	4.00	mg/L			EK1	02/06/23	1254	2378066	11
Bicarbonate alkalinity (CaCO3)		82.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 608803001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I	Project: GPCC00101
Sample ID: 608803002	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 11:30	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.30			SU			EOS1	01/26/23	1130	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5			mg/L			EOS1	01/26/23	1130	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.59	0.0670	0.200	mg/L		1	JLD1	01/27/23	1802	2375330	3
Fluoride	J	0.0935	0.0330	0.100	mg/L		1					
Nitrate-N		0.102	0.0330	0.100	mg/L		1					
Sulfate		293	3.33	10.0	mg/L		25	JLD1	01/28/23	0317	2375330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1017	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.07	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	1957	2375324	6
Calcium		68.0	0.800	2.00	mg/L	1.00	10					
Manganese		1.43	0.0100	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2203	2375324	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0180	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00109	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00823	0.000300	0.00100	mg/L	1.00	1					
Iron		23.0	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00331	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.54	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.0	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I Project: GPCC00101
Sample ID: 608803002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		419	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1353	2378066	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 608803002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I	Project: GPCC00101
Sample ID: 608803003	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 11:05	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.28			SU			EOS1	01/26/23	1105	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1105	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.82	0.0670	0.200	mg/L		1	JLD1	01/27/23	1833	2375330	3
Fluoride		0.167	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1030	13.3	40.0	mg/L		100	JLD1	01/28/23	0348	2375330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1019	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.17	0.104	0.300	mg/L	1.00	20	PRB	02/04/23	2000	2375324	6
Calcium		361	1.60	4.00	mg/L	1.00	20					
Magnesium		64.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.22	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2207	2375324	7
Arsenic	J	0.00208	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0397	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00158	0.000300	0.00100	mg/L	1.00	1					
Iron		2.33	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0279	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00140	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.54	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I	Project: GPCC00101
Sample ID: 608803003	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1680	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		131	1.45	4.00	mg/L			EK1	02/06/23	1356	2378066	10
Bicarbonate alkalinity (CaCO3)		131	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 608803003

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05	Project: GPCC00101
Sample ID: 608803004	Client ID: GPCC001
Matrix: WQ	
Collect Date: 26-JAN-23 16:10	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	01/27/23	1904	2375330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1027	2375754	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2004	2375324	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00620	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	5

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 608803004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	1.60	1.45	4.00	mg/L		EK1	02/06/23	1358	2378066		6
Bicarbonate alkalinity (CaCO ₃)	J	1.60	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 608803005 Client ID: GPCC001
Matrix: WQ
Collect Date: 26-JAN-23 14:25
Receive Date: 27-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.165	0.0670	0.200	mg/L		1	JLD1	01/27/23	1935	2375330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1029	2375754	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2008	2375324	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	5

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 608803005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1401	2378066	6
Bicarbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51I Project: GPCC00101
Sample ID: 608803006 Client ID: GPCC001
Matrix: WG
Collect Date: 26-JAN-23 12:00
Receive Date: 27-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.44			SU			EOS1	01/26/23	1200	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1200	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1150	13.3	40.0	mg/L		100	JLD1	01/28/23	0552	2375330	3
Fluoride		0.120	0.0330	0.100	mg/L		1	JLD1	01/27/23	2006	2375330	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		9.50	0.134	0.400	mg/L		2	JLD1	01/28/23	0419	2375330	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1031	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.445	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2018	2375324	7
Calcium		198	0.800	2.00	mg/L	1.00	10					
Magnesium		131	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2210	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0152	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00101	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0231	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0951	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0247	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000283	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		47.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		47.7	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2022	2375324	9
Solids Analysis												

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51I	Project: GPCC00101
Sample ID: 608803006	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1750	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.2	1.45	4.00	mg/L			EK1	02/06/23	1403	2378066	12
Bicarbonate alkalinity (CaCO3)		23.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 608803006

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02	Project: GPCC00101
Sample ID: 608803007	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 12:00	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.8	0.335	1.00	mg/L		5	JLD1	01/28/23	0623	2375330	1
Fluoride		1.13	0.0330	0.100	mg/L		1	JLD1	01/27/23	2036	2375330	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		954	13.3	40.0	mg/L		100	JLD1	01/28/23	0653	2375330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1032	2375754	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		30.8	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2029	2375324	5
Boron		0.447	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2026	2375324	6
Calcium		150	0.800	2.00	mg/L	1.00	10					
Magnesium		86.4	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2225	2375324	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0169	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0378	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00429	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.522	0.000300	0.00100	mg/L	1.00	1					
Iron		48.3	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000896	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0547	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.63	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00278	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1410	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 608803007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	U	ND	1.45	4.00	mg/L		EK1	02/06/23	1406	2378066		10
Bicarbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47	Project: GPCC00101
Sample ID: 608803008	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 13:33	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.65			SU			EOS1	01/26/23	1333	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1333	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.96	0.0670	0.200	mg/L		1	JLD1	01/27/23	1713	2375336	3
Fluoride		0.117	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0735	0.0330	0.100	mg/L		1					
Sulfate		1310	26.6	80.0	mg/L		200	JLD1	01/28/23	0055	2375336	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1037	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.0154	0.00100	0.00500	mg/L	1.00	1	PRB	02/05/23	1045	2375324	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2228	2375324	7
Arsenic	J	0.00240	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0311	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000376	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0949	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0506	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000270	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		46.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.661	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2033	2375324	8
Calcium		331	0.800	2.00	mg/L	1.00	10					
Magnesium		123	0.100	0.300	mg/L	1.00	10					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47	Project: GPCC00101
Sample ID: 608803008	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.6	1.45	4.00	mg/L			EK1	02/06/23	1408	2378066	11
Bicarbonate alkalinity (CaCO3)		25.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 608803008

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D	Project: GPCC00101
Sample ID: 608803009	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 09:50	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.20			SU			EOS1	01/26/23	0950	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/26/23	0950	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.354	0.0330	0.100	mg/L		1	JLD1	01/27/23	1743	2375336	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		21.8	2.68	8.00	mg/L		40	JLD1	01/28/23	0126	2375336	4
Sulfate		370	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1039	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0397	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1030	2375324	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2232	2375324	7
Arsenic	J	0.00275	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0481	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.59	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00883	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000850	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		119	0.800	2.00	mg/L	1.00	10	PRB	02/04/23	2037	2375324	8
Manganese		1.16	0.0100	0.0500	mg/L	1.00	10					
Sodium		47.7	0.800	2.50	mg/L	1.00	10					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D Project: GPCC00101
Sample ID: 608803009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		693	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		128	1.45	4.00	mg/L			EK1	02/06/23	1415	2378066	11
Bicarbonate alkalinity (CaCO3)		128	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 608803009

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I	Project: GPCC00101
Sample ID: 608803010	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 15:00	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.93			SU			EOS1	01/26/23	1500	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		4			mg/L			EOS1	01/26/23	1500	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1070	13.3	40.0	mg/L		100	JLD1	01/28/23	0227	2375336	3
Chloride		12.1	0.134	0.400	mg/L		2	JLD1	01/28/23	0157	2375336	4
Fluoride		1.19	0.0330	0.100	mg/L		1	JLD1	01/27/23	1814	2375336	5
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1040	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.440	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2047	2375324	7
Calcium		151	0.800	2.00	mg/L	1.00	10					
Magnesium		86.3	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2236	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0377	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00435	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.518	0.000300	0.00100	mg/L	1.00	1					
Iron		47.6	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000895	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0553	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.64	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00265	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		30.0	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2051	2375324	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I Project: GPCC00101
Sample ID: 608803010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1440	2.38	10.0	mg/L		CH6	02/01/23	1305	2376741		10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	01/31/23	1657	2375859		11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L		EK1	02/06/23	1418	2378066		12
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 608803010

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I	Project: GPCC00101
Sample ID: 608803011	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 13:17	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.78			SU			EOS1	01/26/23	1317	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6.5			mg/L			EOS1	01/26/23	1317	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		41.4	0.670	2.00	mg/L		10	JLD1	01/28/23	0258	2375336	3
Fluoride		2.83	0.330	1.00	mg/L		10					
Nitrate-N	U	ND	0.330	1.00	mg/L		10					
Sulfate		4000	66.5	200	mg/L		500	JLD1	01/28/23	0329	2375336	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1042	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		278	8.00	20.0	mg/L	1.00	100	PRB	02/04/23	2058	2375324	6
Iron		446	3.30	10.0	mg/L	1.00	100					
Manganese		91.8	0.100	0.500	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2239	2375324	7
Arsenic		0.0237	0.00200	0.00500	mg/L	1.00	1					
Beryllium		0.115	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00531	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00311	0.00300	0.0100	mg/L	1.00	1					
Lithium		0.200	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		18.6	0.0800	0.300	mg/L	1.00	1					
Selenium		0.104	0.00150	0.00500	mg/L	1.00	1					
Barium	J	0.0132	0.00335	0.0200	mg/L	1.00	5	PRB	02/04/23	2055	2375324	8
Cobalt		1.86	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Magnesium		193	0.0500	0.150	mg/L	1.00	5					
Sodium		98.6	0.400	1.25	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.0543	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1032	2375324	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I Project: GPCC00101
Sample ID: 608803011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4330	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1449	2378067	12
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I
Sample ID: 608803011

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I	Project: GPCC00101
Sample ID: 608803012	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 15:05	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.60			SU			EOS1	01/26/23	1505	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/26/23	1505	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		28.3	0.335	1.00	mg/L		5	JLD1	01/28/23	0400	2375336	3
Sulfate		1970	26.6	80.0	mg/L		200	JLD1	01/28/23	0431	2375336	4
Fluoride		1.66	0.0330	0.100	mg/L		1	JLD1	01/27/23	1916	2375336	5
Nitrate-N		0.512	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1044	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.288	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2102	2375324	7
Calcium		284	0.800	2.00	mg/L	1.00	10					
Cobalt		3.64	0.00300	0.0100	mg/L	1.00	10					
Magnesium		190	0.100	0.300	mg/L	1.00	10					
Sodium		62.3	0.800	2.50	mg/L	1.00	10					
Manganese		188	1.00	5.00	mg/L	1.00	1000	PRB	02/04/23	2105	2375324	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2243	2375324	9
Arsenic	J	0.00204	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0218	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0782	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0152	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.663	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.114	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.5	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00310	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I Project: GPCC00101
Sample ID: 608803012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.00	1.45	4.00	mg/L			EK1	02/06/23	1453	2378067	12
Bicarbonate alkalinity (CaCO3)		6.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 608803012

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I	Project: GPCC00101
Sample ID: 608803013	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 14:10	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.16			SU			EOS1	01/26/23	1410	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/26/23	1410	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.184	0.0330	0.100	mg/L		1	JLD1	01/27/23	1947	2375336	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1490	26.6	80.0	mg/L		200	JLD1	01/28/23	0634	2375336	4
Chloride		17.0	0.335	1.00	mg/L		5	JLD1	01/28/23	0603	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1045	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		111	1.00	5.00	mg/L	1.00	1000	PRB	02/04/23	2120	2375324	7
Boron		0.353	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2116	2375324	8
Calcium		214	0.800	2.00	mg/L	1.00	10					
Magnesium		170	0.100	0.300	mg/L	1.00	10					
Sodium		59.6	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2246	2375324	9
Arsenic	J	0.00225	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0125	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00164	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000517	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.604	0.000300	0.00100	mg/L	1.00	1					
Iron		0.651	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.32	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00321	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I Project: GPCC00101
Sample ID: 608803013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2280	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.0	1.45	4.00	mg/L			EK1	02/06/23	1510	2378067	12
Bicarbonate alkalinity (CaCO3)		16.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	EPA 300.0		
6	SW846 7470A		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SM 2540C		
11	SM 4500-S (2-) D		
12	SM 2320B		

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 608803013

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-65I	Project: GPCC00101
Sample ID: 608803014	Client ID: GPCC001
Matrix: WG	
Collect Date: 26-JAN-23 16:45	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.06			SU			EOS1	01/26/23	1645	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	01/26/23	1645	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		26.5	0.335	1.00	mg/L		5	JLD1	01/28/23	0705	2375336	3
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		3160	26.6	80.0	mg/L		200	JLD1	01/28/23	0736	2375336	4
Fluoride		1.08	0.0330	0.100	mg/L		1	JLD1	01/27/23	2018	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1047	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		235	0.800	2.00	mg/L	1.00	10	PRB	02/04/23	2124	2375324	7
Iron		320	0.330	1.00	mg/L	1.00	10					
Magnesium		217	0.100	0.300	mg/L	1.00	10					
Sodium		73.0	0.800	2.50	mg/L	1.00	10					
Manganese		48.1	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2127	2375324	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2250	2375324	9
Arsenic		0.00926	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0103	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0179	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00119	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00352	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.405	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.00133	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0791	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0212	0.00150	0.00500	mg/L	1.00	1					
Thallium	J	0.000773	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0322	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1034	2375324	10
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-65I Project: GPCC00101
Sample ID: 608803014 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3770	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1145	2376122	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1513	2378067	13
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-65I
Sample ID: 608803014

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 608803015	Client ID: GPCC001
Matrix: WG	
Collect Date: 27-JAN-23 08:40	
Receive Date: 27-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.24			SU			EOS1	01/27/23	0840	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		4.5			mg/L			EOS1	01/27/23	0840	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.5	0.134	0.400	mg/L		2	JLD1	01/28/23	0807	2375336	3
Fluoride	J	0.151	0.0660	0.200	mg/L		2					
Sulfate		885	13.3	40.0	mg/L		100	JLD1	01/28/23	0939	2375336	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1	JLD1	01/27/23	2049	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1049	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.277	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2131	2375324	7
Calcium		214	0.800	2.00	mg/L	1.00	10					
Magnesium		86.4	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2254	2375324	8
Arsenic	J	0.00215	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0315	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0728	0.000300	0.00100	mg/L	1.00	1					
Iron		4.96	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0274	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000817	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		47.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		10.1	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2134	2375324	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D	Project: GPCC00101
Sample ID: 608803015	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1400	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1145	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		78.8	1.45	4.00	mg/L			EK1	02/06/23	1517	2378067	12
Bicarbonate alkalinity (CaCO3)		78.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 608803015

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-66I	Project: GPCC00101
Sample ID: 608969001	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 14:20	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.64			SU			EOS1	01/30/23	1420	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	01/30/23	1420	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		2060	26.6	80.0	mg/L		200	JLD1	01/31/23	2021	2376273	3
Fluoride	J	0.0574	0.0330	0.100	mg/L		1	JLD1	01/31/23	1103	2376273	4
Nitrate-N	J	0.0461	0.0330	0.100	mg/L		1					
Chloride		10.2	0.335	1.00	mg/L		5	JLD1	01/31/23	2052	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0946	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	1952	2376276	7
Barium		0.0284	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.345	0.000300	0.00100	mg/L	1.00	1					
Iron		17.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000675	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		217	0.800	2.00	mg/L	1.00	10	SKJ	02/10/23	1637	2376276	8
Sodium		62.9	0.800	2.50	mg/L	1.00	10					
Boron		0.128	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	0953	2376276	9
Magnesium		303	0.100	0.300	mg/L	1.00	10	SKJ	02/14/23	0814	2376276	10
Arsenic		0.00565	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1723	2376276	11
Beryllium	J	0.000318	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Potassium		10.8	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00817	0.00150	0.00500	mg/L	1.00	1					
Manganese		109	0.500	2.50	mg/L	1.00	500	SKJ	02/10/23	1549	2376276	12
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-66I Project: GPCC00101
Sample ID: 608969001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2890	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	13
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1553	2377896	14
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		62.4	1.45	4.00	mg/L			EK1	02/10/23	1513	2382211	15
Bicarbonate alkalinity (CaCO3)		62.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	EPA 300.0		
6	SW846 7470A		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SM 2540C		
14	SM 4500-S (2-) D		
15	SM 2320B		

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-66I
Sample ID: 608969001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03	Project: GPCC00101
Sample ID: 608969002	Client ID: GPCC001
Matrix: WQ	
Collect Date: 30-JAN-23 13:50	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.204	0.0670	0.200	mg/L		1	JLD1	01/31/23	1950	2376273	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0948	2376750	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1006	2376276	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1600	2376276	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2010	2376276	5
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0170	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0757	2376276	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1554	2377896	8

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 608969002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	1.80	1.45	4.00	mg/L			EK1	02/10/23	1525	2382211	9
Bicarbonate alkalinity (CaCO ₃)	J	1.80	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06	Project: GPCC00101
Sample ID: 608969003	Client ID: GPCC001
Matrix: WQ	
Collect Date: 30-JAN-23 15:15	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.667	0.0670	0.200	mg/L		1	JLD1	01/31/23	1204	2376273	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0950	2376750	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1603	2376276	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2021	2376276	4
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	J	0.00112	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1008	2376276	5
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0759	2376276	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1554	2377896	8

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 608969003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃	J	1.80	1.45	4.00	mg/L			EK1	02/10/23	1530	2382211	9
Bicarbonate alkalinity (CaCO ₃)	J	1.80	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-57I	Project: GPCC00101
Sample ID: 608969004	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 14:25	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.39			SU			EOS1	01/30/23	1425	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/30/23	1425	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.46	0.0670	0.200	mg/L		1	JLD1	01/31/23	1235	2376273	3
Fluoride		0.297	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		618	26.6	80.0	mg/L		200	JLD1	01/31/23	2154	2376273	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0951	2376750	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		102	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1649	2376276	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1743	2376276	7
Beryllium		0.000787	0.000200	0.000500	mg/L	1.00	1					
Potassium		6.19	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Magnesium		64.6	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0827	2376276	8
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1010	2376276	9
Manganese		27.9	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1612	2376276	10
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2024	2376276	11
Barium		0.0220	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00132	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.151	0.000300	0.00100	mg/L	1.00	1					
Iron		0.588	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0359	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium		23.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-57I Project: GPCC00101
Sample ID: 608969004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		898	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	12
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1555	2377896	13
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		13.2	1.45	4.00	mg/L			EK1	02/10/23	1531	2382211	14
Bicarbonate alkalinity (CaCO3)		13.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	SW846 7470A		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SM 2540C		
13	SM 4500-S (2-) D		
14	SM 2320B		

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-57I
Sample ID: 608969004

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD03 Project: GPCC00101
Sample ID: 608969005 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-23 12:00
Receive Date: 31-JAN-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	01/31/23	1306	2376273	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		717	26.6	80.0	mg/L		200	JLD1	01/31/23	2225	2376273	2
Chloride		9.86	0.335	1.00	mg/L		5	JLD1	01/31/23	2256	2376273	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0957	2376750	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2028	2376276	5
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00114	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.440	0.000300	0.00100	mg/L	1.00	1					
Iron		0.534	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000251	0.000200	0.00100	mg/L	1.00	1					
Sodium		29.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		124	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1651	2376276	6
Manganese		33.0	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1614	2376276	7
Arsenic	J	0.00201	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1746	2376276	8
Beryllium	J	0.000291	0.000200	0.000500	mg/L	1.00	1					
Potassium		10.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Magnesium		72.7	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0829	2376276	9
Boron		0.585	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1011	2376276	10
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1010	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1148	2376122	12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD03	Project: GPCC00101
Sample ID: 608969005	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO ₃		16.8	1.45	4.00	mg/L			EK1	02/10/23	1533	2382211	13
Bicarbonate alkalinity (CaCO ₃)		16.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO ₃)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I	Project: GPCC00101
Sample ID: 608969006	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 13:40	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.66			SU			EOS1	01/30/23	1340	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/30/23	1340	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		280	3.33	10.0	mg/L		25	JLD1	02/01/23	0028	2376273	3
Chloride		7.18	0.0670	0.200	mg/L		1	JLD1	01/31/23	1337	2376273	4
Fluoride		0.230	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0958	2376750	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1749	2376276	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium		7.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Manganese		6.47	0.0100	0.0500	mg/L	1.00	10	SKJ	02/10/23	1617	2376276	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2032	2376276	8
Barium		0.0220	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		49.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0280	0.000300	0.00100	mg/L	1.00	1					
Iron		0.991	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00660	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000803	0.000200	0.00100	mg/L	1.00	1					
Sodium		18.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.820	0.0520	0.150	mg/L	1.00	10	PRB	02/14/23	1013	2376276	9
Magnesium		38.2	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0835	2376276	10
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I Project: GPCC00101
Sample ID: 608969006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		448	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1148	2376122	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.4	1.45	4.00	mg/L			EK1	02/10/23	1538	2382211	13
Bicarbonate alkalinity (CaCO3)		26.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 608969006

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-62I	Project: GPCC00101
Sample ID: 608969007	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 13:00	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.38			SU			EOS1	01/30/23	1300	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/30/23	1300	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.85	0.335	1.00	mg/L		5	JLD1	02/01/23	0059	2376273	3
Fluoride		0.161	0.0330	0.100	mg/L		1	JLD1	01/31/23	1408	2376273	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		647	13.3	40.0	mg/L		100	JLD1	02/01/23	0130	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1000	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		32.6	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1620	2376276	7
Magnesium		68.9	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0831	2376276	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1751	2376276	9
Beryllium	J	0.000293	0.000200	0.000500	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.561	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1015	2376276	10
Calcium		124	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1700	2376276	11
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2035	2376276	12
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00107	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.425	0.000300	0.00100	mg/L	1.00	1					
Iron		0.516	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00661	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000247	0.000200	0.00100	mg/L	1.00	1					
Sodium		27.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-62I Project: GPCC00101
Sample ID: 608969007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1020	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	13
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1149	2376122	14
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.0	1.45	4.00	mg/L			EK1	02/10/23	1540	2382211	15
Bicarbonate alkalinity (CaCO3)		17.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SM 2540C	
14	SM 4500-S (2-) D	
15	SM 2320B	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-62I
Sample ID: 608969007

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51S	Project: GPCC00101
Sample ID: 608969008	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 15:30	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	01/30/23	1530	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/30/23	1530	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.45	0.0670	0.200	mg/L		1	JLD1	01/31/23	1438	2376273	3
Fluoride	J	0.0983	0.0330	0.100	mg/L		1					
Nitrate-N		1.87	0.0330	0.100	mg/L		1					
Sulfate		0.733	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1002	2376750	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		10.0	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0806	2376276	5
Boron	J	0.0102	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1017	2376276	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1703	2376276	7
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium		2.46	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2039	2376276	8
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.87	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00115	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0375	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium		12.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.994	0.00500	0.0250	mg/L	1.00	5	SKJ	02/10/23	1623	2376276	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-51S Project: GPCC00101
Sample ID: 608969008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1149	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.0	1.45	4.00	mg/L			EK1	02/10/23	1542	2382211	12
Bicarbonate alkalinity (CaCO3)		68.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-51S	Project:	GPCC00101
Sample ID:	608969008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I	Project: GPCC00101
Sample ID: 608969009	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 17:00	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.33			SU			EOS1	01/30/23	1700	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/30/23	1700	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		40.7	0.670	2.00	mg/L		10	JLD1	02/01/23	0201	2376273	3
Fluoride	J	0.0767	0.0330	0.100	mg/L		1	JLD1	01/31/23	1611	2376273	4
Nitrate-N		1.01	0.0330	0.100	mg/L		1					
Sulfate		2800	66.5	200	mg/L		500	JLD1	02/01/23	0334	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1003	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0150	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1019	2376276	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2042	2376276	8
Barium		0.0254	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00126	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		2.85	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0187	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000201	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		68.5	0.400	1.25	mg/L	1.00	5	SKJ	02/10/23	1711	2376276	9
Magnesium		288	0.100	0.300	mg/L	1.00	10	SKJ	02/14/23	0833	2376276	10
Calcium		372	0.800	2.00	mg/L	1.00	10	SKJ	02/10/23	1709	2376276	11
Manganese		388	0.500	2.50	mg/L	1.00	500	SKJ	02/10/23	1626	2376276	12
Cobalt		11.0	0.00600	0.0200	mg/L	1.00	20	SKJ	02/10/23	1706	2376276	13
Arsenic		0.0103	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1754	2376276	14
Beryllium		0.00116	0.000200	0.000500	mg/L	1.00	1					
Potassium		14.5	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0292	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-64I	Project: GPCC00101
Sample ID: 608969009	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4260	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	15
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1555	2377896	16
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.4	1.45	4.00	mg/L			EK1	02/10/23	1543	2382211	17
Bicarbonate alkalinity (CaCO3)		37.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SM 2540C	
16	SM 4500-S (2-) D	
17	SM 2320B	

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	608969009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D	Project: GPCC00101
Sample ID: 609212001	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-FEB-23 14:16	
Receive Date: 02-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.28			SU			EOS1	02/01/23	1416	2377722	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1416	2377722	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		12.7	1.34	4.00	mg/L		20	HXC1	02/03/23	0052	2377739	3
Sulfate		258	2.66	8.00	mg/L		20					
Fluoride		0.166	0.0330	0.100	mg/L		1	HXC1	02/02/23	1654	2377739	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/07/23	1203	2378878	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	J	0.00176	0.00100	0.00300	mg/L	1.00	1	BAJ	02/05/23	1809	2377747	6
Arsenic		0.00580	0.00200	0.00500	mg/L	1.00	1					
Barium		0.145	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000825	0.000300	0.00100	mg/L	1.00	1					
Iron		0.405	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00899	0.00300	0.0100	mg/L	1.00	1					
Magnesium		21.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.809	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0111	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.56	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		49.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	02/06/23	1648	2377747	7
Boron		0.255	0.0260	0.0750	mg/L	1.00	5	BAJ	02/06/23	1627	2377747	8
Calcium		86.1	0.400	1.00	mg/L	1.00	5					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D Project: GPCC00101
Sample ID: 609212001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		525	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1606	2377896	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		117	1.45	4.00	mg/L			EK1	02/13/23	1136	2382489	11
Bicarbonate alkalinity (CaCO3)		117	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/06/23	1118	2378875
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 609212001

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-69I	Project: GPCC00101
Sample ID: 609212002	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-FEB-23 12:47	
Receive Date: 02-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	02/01/23	1247	2377722	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1247	2377722	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		275	2.66	8.00	mg/L		20	HXC1	02/03/23	0122	2377739	3
Chloride		5.80	0.0670	0.200	mg/L		1	HXC1	02/02/23	1724	2377739	4
Fluoride	J	0.0963	0.0330	0.100	mg/L		1					
Nitrate-N		0.144	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/07/23	1205	2378878	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	02/06/23	1650	2377747	6
Boron		1.29	0.0520	0.150	mg/L	1.00	10	BAJ	02/06/23	1629	2377747	7
Calcium		69.5	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/05/23	1813	2377747	8
Arsenic	J	0.00349	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0253	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00338	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000668	0.000300	0.00100	mg/L	1.00	1					
Iron		0.438	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0548	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.38	0.0800	0.300	mg/L	1.00	1					
Selenium		0.196	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-69I Project: GPCC00101
Sample ID: 609212002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		441	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1606	2377896	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.6	1.45	4.00	mg/L			EK1	02/13/23	1146	2382489	11
Bicarbonate alkalinity (CaCO3)		25.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/06/23	1118	2378875

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-69I
Sample ID: 609212002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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QC Summary

Report Date: February 24, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 608803

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2375330										
QC1205306398	608658011	DUP									
Chloride		15.3		15.3	mg/L	0.281		(0%-20%)	JLD1	01/28/23	00:12
Fluoride		0.163		0.161	mg/L	1.6	^	(+/-0.100)		01/27/23	23:41
Nitrate-N		0.724		0.724	mg/L	0.0829		(0%-20%)			
Sulfate		138		138	mg/L	0.105		(0%-20%)		01/28/23	00:12
QC1205306397	LCS										
Chloride	5.00			5.00	mg/L			100 (90%-110%)		01/27/23	22:09
Fluoride	2.50			2.55	mg/L			102 (90%-110%)			
Nitrate-N	2.50			2.48	mg/L			99.2 (90%-110%)			
Sulfate	10.0			10.0	mg/L			100 (90%-110%)			
QC1205306396	MB										
Chloride			U	ND	mg/L					01/27/23	21:07
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205306399	608658011	PS									
Chloride	5.00	1.53		6.58	mg/L			101 (90%-110%)		01/28/23	01:14

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QC Summary

Workorder: 608803

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2375330										
Fluoride	2.50	0.163		2.63	mg/L		98.8	(90%-110%)	JLD1	01/28/23	01:45
Nitrate-N	2.50	0.724		3.18	mg/L		98.3	(90%-110%)			
Sulfate	10.0	13.8		24.4	mg/L		106	(90%-110%)		01/28/23	01:14
Batch	2375336										
QC1205306403	608803015 DUP										
Chloride		11.5		11.5	mg/L	0.0261		(0%-20%)	JLD1	01/28/23	08:37
Fluoride	J	0.151	J	0.156	mg/L	3.13 ^		(+/-0.200)			
Nitrate-N	U	ND	U	ND	mg/L	N/A				01/27/23	23:53
Sulfate		885		891	mg/L	0.706		(0%-20%)		01/28/23	10:10
QC1205306402	LCS										
Chloride	5.00			4.88	mg/L		97.7	(90%-110%)		01/27/23	22:21
Fluoride	2.50			2.55	mg/L		102	(90%-110%)			
Nitrate-N	2.50			2.49	mg/L		99.4	(90%-110%)			
Sulfate	10.0			10.1	mg/L		101	(90%-110%)			
QC1205306401	MB										
Chloride			U	ND	mg/L					01/27/23	21:50
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						

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QC Summary

Workorder: 608803

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2375336										
Sulfate			U	ND	mg/L				JLD1	01/27/23	21:50
QC1205306404 608803015 PS											
Chloride	5.00	5.74		11.3	mg/L		111 *	(90%-110%)		01/28/23	09:08
Fluoride	2.50	J 0.0754		2.65	mg/L		103	(90%-110%)			
Nitrate-N	2.50	U ND		2.43	mg/L		97.1	(90%-110%)		01/28/23	00:24
Sulfate	10.0	8.85		19.1	mg/L		102	(90%-110%)		01/28/23	10:41
Metals Analysis - ICPMS											
Batch	2375324										
QC1205306363 LCS											
Antimony	0.0500			0.0505	mg/L		101	(80%-120%)	PRB	02/04/23	19:39
Arsenic	0.0500			0.0491	mg/L		98.3	(80%-120%)			
Barium	0.0500			0.0532	mg/L		106	(80%-120%)			
Beryllium	0.0500			0.0576	mg/L		115	(80%-120%)			
Boron	0.100			0.109	mg/L		109	(80%-120%)			
Cadmium	0.0500			0.0511	mg/L		102	(80%-120%)			
Calcium	2.00			2.18	mg/L		109	(80%-120%)			
Chromium	0.0500			0.0502	mg/L		100	(80%-120%)			
Cobalt	0.0500			0.0504	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 608803

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Iron	2.00			1.99	mg/L		99.3	(80%-120%)	PRB	02/04/23	19:39
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			
Lithium	0.0500			0.0539	mg/L		108	(80%-120%)			
Magnesium	2.00			2.27	mg/L		113	(80%-120%)			
Manganese	0.0500			0.0492	mg/L		98.5	(80%-120%)			
Molybdenum	0.0500			0.0520	mg/L		104	(80%-120%)			
Potassium	2.00			2.12	mg/L		106	(80%-120%)			
Selenium	0.0500			0.0500	mg/L		100	(80%-120%)			
Sodium	2.00			2.15	mg/L		108	(80%-120%)			
Thallium	0.0500			0.0500	mg/L		100	(80%-120%)			
QC1205306362	MB										
Antimony			U	ND	mg/L					02/04/23	19:35
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						

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QC Summary

Workorder: 608803

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Cadmium			U	ND	mg/L				PRB	02/04/23	19:35
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			J	0.000280	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205306364 608803001 MS											
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		02/04/23	21:49

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QC Summary

Workorder: 608803

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Arsenic	0.0500	U	ND	0.0518	mg/L		102	(75%-125%)	PRB	02/04/23	21:49
Barium	0.0500		0.0293	0.0815	mg/L		104	(75%-125%)			
Beryllium	0.0500	U	ND	0.0598	mg/L		119	(75%-125%)			
Boron	0.100		1.45	1.59	mg/L		N/A	(75%-125%)		02/04/23	19:46
Cadmium	0.0500	U	ND	0.0520	mg/L		104	(75%-125%)		02/04/23	21:49
Calcium	2.00		57.6	60.9	mg/L		N/A	(75%-125%)		02/04/23	19:46
Chromium	0.0500	U	ND	0.0515	mg/L		103	(75%-125%)		02/04/23	21:49
Cobalt	0.0500		0.00320	0.0540	mg/L		102	(75%-125%)			
Iron	2.00		0.453	2.54	mg/L		105	(75%-125%)			
Lead	0.0500	U	ND	0.0512	mg/L		102	(75%-125%)			
Lithium	0.0500	U	ND	0.0564	mg/L		112	(75%-125%)			
Magnesium	2.00		22.7	25.2	mg/L		N/A	(75%-125%)			
Manganese	0.0500		1.71	1.78	mg/L		N/A	(75%-125%)		02/04/23	19:46
Molybdenum	0.0500	J	0.000920	0.0558	mg/L		110	(75%-125%)		02/04/23	21:49
Potassium	2.00		4.59	6.74	mg/L		108	(75%-125%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Selenium	0.0500	U	ND	0.0523	mg/L		104	(75%-125%)	PRB	02/04/23	21:49
Sodium	2.00		17.8	20.4	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND	0.0502	mg/L		100	(75%-125%)			
QC1205306365	608803001 MSD										
Antimony	0.0500	U	ND	0.0529	mg/L	0.519	106	(0%-20%)		02/04/23	21:52
Arsenic	0.0500	U	ND	0.0522	mg/L	0.893	103	(0%-20%)			
Barium	0.0500		0.0293	0.0811	mg/L	0.463	104	(0%-20%)			
Beryllium	0.0500	U	ND	0.0574	mg/L	4.05	115	(0%-20%)			
Boron	0.100		1.45	1.63	mg/L	2.49	N/A	(0%-20%)		02/04/23	19:50
Cadmium	0.0500	U	ND	0.0522	mg/L	0.543	104	(0%-20%)		02/04/23	21:52
Calcium	2.00		57.6	61.8	mg/L	1.43	N/A	(0%-20%)		02/04/23	19:50
Chromium	0.0500	U	ND	0.0506	mg/L	1.74	101	(0%-20%)		02/04/23	21:52
Cobalt	0.0500		0.00320	0.0542	mg/L	0.233	102	(0%-20%)			
Iron	2.00		0.453	2.55	mg/L	0.342	105	(0%-20%)			
Lead	0.0500	U	ND	0.0511	mg/L	0.202	102	(0%-20%)			
Lithium	0.0500	U	ND	0.0544	mg/L	3.58	108	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Magnesium	2.00	22.7		24.8	mg/L	1.54	N/A	(0%-20%)	PRB	02/04/23	21:52
Manganese	0.0500	1.71		1.78	mg/L	0.202	N/A	(0%-20%)		02/04/23	19:50
Molybdenum	0.0500	J 0.000920		0.0556	mg/L	0.248	109	(0%-20%)		02/04/23	21:52
Potassium	2.00	4.59		6.62	mg/L	1.84	102	(0%-20%)			
Selenium	0.0500	U ND		0.0512	mg/L	2.14	102	(0%-20%)			
Sodium	2.00	17.8		20.0	mg/L	1.95	N/A	(0%-20%)			
Thallium	0.0500	U ND		0.0511	mg/L	1.89	102	(0%-20%)			
QC1205306366 608803001 SDILT											
Antimony		U ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23	22:00
Arsenic		U ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		29.3		5.91	ug/L	.922		(0%-20%)			
Beryllium		U ND	U	ND	ug/L	N/A		(0%-20%)			
Boron		72.3		16.6	ug/L	15.1		(0%-20%)		02/04/23	19:53
Cadmium		U ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23	22:00
Calcium		2880		565	ug/L	1.98		(0%-20%)		02/04/23	19:53
Chromium		U ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23	22:00

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2375324										
Cobalt		3.20	J	0.661	ug/L	3.25		(0%-20%)	PRB	02/04/23	22:00
Iron		453	J	92.5	ug/L	2.09		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		22700		4780	ug/L	5.34		(0%-20%)			
Manganese		85.3		16.3	ug/L	4.25		(0%-20%)		02/04/23	19:53
Molybdenum	J	0.920	J	0.258	ug/L	40.2		(0%-20%)		02/04/23	22:00
Potassium		4590		914	ug/L	.409		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		17800		3620	ug/L	1.62		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2375754										
QC1205307096	608803003	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/31/23	10:21
QC1205307095	LCS										
Mercury		0.00200		0.00211	mg/L		105	(80%-120%)		01/31/23	10:11
QC1205307094	MB										
Mercury			U	ND	mg/L					01/31/23	10:09

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2375754											
QC1205307097	608803003	MS									
Mercury	0.00200	U	ND	0.00180	mg/L		90	(75%-125%)	JP2	01/31/23	10:22
QC1205307098 608803003 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		01/31/23	10:24
Solids Analysis											
Batch 2376741											
QC1205308819 608803009 DUP											
Total Dissolved Solids			693	693	mg/L	0		(0%-5%)	CH6	02/01/23	13:05
QC1205308817 LCS											
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		02/01/23	13:05
QC1205308816 MB											
Total Dissolved Solids			U	ND	mg/L					02/01/23	13:05
Batch 2377347											
QC1205309759 608803013 DUP											
Total Dissolved Solids			2280	2240	mg/L	1.68		(0%-5%)	CH6	02/02/23	14:28
QC1205309760 608969004 DUP											
Total Dissolved Solids			898	882	mg/L	1.8		(0%-5%)		02/02/23	14:28
QC1205309758 LCS											
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/02/23	14:28
QC1205309757 MB											
Total Dissolved Solids			U	ND	mg/L					02/02/23	14:28
Spectrometric Analysis											
Batch 2375859											
QC1205307355 LCS											
Total Sulfide	0.400			0.400	mg/L		99.9	(85%-115%)	HH2	01/31/23	16:57

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch 2375859											
QC1205307354		MB									
Total Sulfide			U	ND	mg/L				HH2	01/31/23	16:57
QC1205307356	608803001	PS									
Total Sulfide	0.400	U	ND	0.281	mg/L		67.5*	(75%-125%)		01/31/23	16:57
QC1205307357	608803001	PSD									
Total Sulfide	0.400	U	ND	0.290	mg/L	3.05	69.7*	(0%-15%)		01/31/23	16:57
Batch 2376122											
QC1205307836		LCS									
Total Sulfide	0.400			0.396	mg/L		99	(85%-115%)	HH2	02/02/23	11:42
QC1205307835		MB									
Total Sulfide			U	ND	mg/L					02/02/23	11:42
QC1205307839	608815006	PS									
Total Sulfide	0.400	U	ND	0.367	mg/L		86.7	(75%-125%)		02/02/23	11:47
QC1205307840	608815006	PSD									
Total Sulfide	0.400	U	ND	0.374	mg/L	1.88	88.4	(0%-15%)		02/02/23	11:48
Titration and Ion Analysis											
Batch 2378066											
QC1205311156	608803001	DUP									
Alkalinity, Total as CaCO3			82.8	83.4	mg/L	0.722		(0%-20%)	EK1	02/06/23	13:02
Bicarbonate alkalinity (CaCO3)			82.8	83.4	mg/L	0.722		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205311155	LCS										
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		02/06/23	12:49

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2378066										
QC1205311157	608803001	MS									
Alkalinity, Total as CaCO3	100	82.8		185	mg/L		102	(80%-120%)	EK1	02/06/23	13:31
<hr/>											
Batch	2378067										
QC1205313003	608803012	DUP									
Alkalinity, Total as CaCO3		6.00		6.20	mg/L	3.28 ^		(+/-4.00)	EK1	02/06/23	14:58
Bicarbonate alkalinity (CaCO3)		6.00		6.20	mg/L	3.28 ^		(+/-4.00)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205311158	LCS										
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/06/23	14:46
QC1205313004	608803012	MS									
Alkalinity, Total as CaCO3	100	6.00		107	mg/L		101	(80%-120%)		02/06/23	15:03

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 24, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 609212

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377739										
QC1205310455	609211001	DUP									
Chloride		7.41		7.44	mg/L	0.473		(0%-20%)	HXC1	02/02/23	19:53
Fluoride		0.227		0.225	mg/L	0.929	^	(+/-0.100)			
Nitrate-N		0.662		0.656	mg/L	0.987	^	(+/-0.500)		02/02/23	23:52
Sulfate		160		171	mg/L	6.74		(0%-20%)		02/02/23	22:23
QC1205310454	LCS										
Chloride	5.00			4.84	mg/L			96.9 (90%-110%)		02/02/23	19:23
Fluoride	2.50			2.62	mg/L			105 (90%-110%)			
Nitrate-N	2.50			2.49	mg/L			99.5 (90%-110%)			
Sulfate	10.0			10.1	mg/L			101 (90%-110%)			
QC1205310453	MB										
Chloride			U	ND	mg/L					02/02/23	18:54
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205310456	609211001	PS									
Chloride	5.00	7.41		13.1	mg/L			114* (90%-110%)		02/02/23	20:23

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QC Summary

Workorder: 609212

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377739										
Fluoride	2.50	0.227		2.77	mg/L		102	(90%-110%)	HXC1	02/02/23	20:23
Nitrate-N	2.50	0.132		2.52	mg/L		95.7	(90%-110%)		02/03/23	00:22
Sulfate	10.0	8.01		18.7	mg/L		107	(90%-110%)		02/02/23	22:52
Metals Analysis - ICPMS											
Batch	2377747										
QC1205310468	LCS										
Antimony	0.0500			0.0503	mg/L		101	(80%-120%)	BAJ	02/05/23	17:48
Arsenic	0.0500			0.0511	mg/L		102	(80%-120%)			
Barium	0.0500			0.0494	mg/L		98.9	(80%-120%)			
Beryllium	0.0500			0.0583	mg/L		117	(80%-120%)		02/06/23	16:17
Boron	0.100			0.111	mg/L		111	(80%-120%)			
Cadmium	0.0500			0.0523	mg/L		105	(80%-120%)		02/05/23	17:48
Calcium	2.00			2.24	mg/L		112	(80%-120%)		02/06/23	16:17
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		02/05/23	17:48
Cobalt	0.0500			0.0505	mg/L		101	(80%-120%)			
Iron	2.00			1.95	mg/L		97.3	(80%-120%)			
Lead	0.0500			0.0515	mg/L		103	(80%-120%)			

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QC Summary

Workorder: 609212

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Lithium	0.0500			0.0565	mg/L		113	(80%-120%)	BAJ	02/05/23	17:48
Magnesium	2.00			2.02	mg/L		101	(80%-120%)			
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)			
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)			
Potassium	2.00			1.84	mg/L		91.9	(80%-120%)			
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)			
Sodium	2.00			2.29	mg/L		114	(80%-120%)			
Thallium	0.0500			0.0512	mg/L		102	(80%-120%)			
QC1205310467	MB										
Antimony			U	ND	mg/L					02/05/23	17:44
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					02/06/23	16:15
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L					02/05/23	17:44
Calcium			U	ND	mg/L					02/06/23	16:15

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Chromium			U	ND	mg/L				BAJ	02/05/23	17:44
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205310469 609211001 MS											
Antimony	0.0500	0.0125		0.0618	mg/L		98.5	(75%-125%)		02/05/23	17:55
Arsenic	0.0500	0.374		0.429	mg/L		N/A	(75%-125%)			
Barium	0.0500	0.164		0.215	mg/L		101	(75%-125%)			

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QC Summary

Workorder: 609212

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Beryllium	0.0500	U	ND	0.0564	mg/L		113	(75%-125%)	BAJ	02/06/23	16:39
Boron	0.100		1.52	1.74	mg/L		N/A	(75%-125%)		02/06/23	16:21
Cadmium	0.0500	U	ND	0.0500	mg/L		99.8	(75%-125%)		02/05/23	17:55
Calcium	2.00		168	185	mg/L		N/A	(75%-125%)		02/06/23	16:21
Chromium	0.0500	U	ND	0.0492	mg/L		96.9	(75%-125%)		02/05/23	17:55
Cobalt	0.0500		0.00123	0.0493	mg/L		96.1	(75%-125%)			
Iron	2.00		1.08	3.08	mg/L		100	(75%-125%)			
Lead	0.0500	U	ND	0.0473	mg/L		94.2	(75%-125%)			
Lithium	0.0500		0.305	0.370	mg/L		N/A	(75%-125%)			
Magnesium	2.00		17.7	20.1	mg/L		N/A	(75%-125%)			
Manganese	0.0500		0.0654	0.116	mg/L		101	(75%-125%)			
Molybdenum	0.0500		0.0781	0.133	mg/L		109	(75%-125%)			
Potassium	2.00		12.0	14.5	mg/L		N/A	(75%-125%)			
Selenium	0.0500		0.0305	0.0816	mg/L		102	(75%-125%)			
Sodium	2.00		20.4	23.4	mg/L		N/A	(75%-125%)			

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QC Summary

Workorder: 609212

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Thallium	0.0500	J	0.00144	0.0497	mg/L		96.6	(75%-125%)	BAJ	02/05/23	17:55
QC1205310470	609211001 MSD										
Antimony	0.0500		0.0125	0.0620	mg/L	0.401	99	(0%-20%)		02/05/23	17:58
Arsenic	0.0500		0.374	0.431	mg/L	0.431	N/A	(0%-20%)			
Barium	0.0500		0.164	0.214	mg/L	0.484	99.1	(0%-20%)			
Beryllium	0.0500	U	ND	0.0549	mg/L	2.62	110	(0%-20%)		02/06/23	16:41
Boron	0.100		1.52	1.75	mg/L	0.244	N/A	(0%-20%)		02/06/23	16:23
Cadmium	0.0500	U	ND	0.0500	mg/L	0.088	99.7	(0%-20%)		02/05/23	17:58
Calcium	2.00		168	186	mg/L	0.00965	N/A	(0%-20%)		02/06/23	16:23
Chromium	0.0500	U	ND	0.0496	mg/L	0.931	97.8	(0%-20%)		02/05/23	17:58
Cobalt	0.0500		0.00123	0.0491	mg/L	0.396	95.7	(0%-20%)			
Iron	2.00		1.08	3.05	mg/L	1.05	98.6	(0%-20%)			
Lead	0.0500	U	ND	0.0477	mg/L	0.895	95.1	(0%-20%)			
Lithium	0.0500		0.305	0.375	mg/L	1.54	N/A	(0%-20%)			
Magnesium	2.00		17.7	19.9	mg/L	0.818	N/A	(0%-20%)			
Manganese	0.0500		0.0654	0.114	mg/L	1.61	97.5	(0%-20%)			

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QC Summary

Workorder: 609212

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Molybdenum	0.0500	0.0781		0.132	mg/L	0.151	109	(0%-20%)	BAJ	02/05/23	17:58
Potassium	2.00	12.0		14.4	mg/L	0.568	N/A	(0%-20%)			
Selenium	0.0500	0.0305		0.0831	mg/L	1.78	105	(0%-20%)			
Sodium	2.00	20.4		22.9	mg/L	2.07	N/A	(0%-20%)			
Thallium	0.0500	J 0.00144		0.0500	mg/L	0.573	97.2	(0%-20%)			
QC1205310471 609211001 SDILT											
Antimony		12.5	J	2.68	ug/L	7.07		(0%-20%)		02/05/23	18:06
Arsenic		374		71.3	ug/L	4.57		(0%-20%)			
Barium		164		32.3	ug/L	1.58		(0%-20%)			
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/06/23	16:45
Boron		75.9		17.1	ug/L	12.5		(0%-20%)		02/06/23	16:25
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/05/23	18:06
Calcium		8410		1740	ug/L	3.47		(0%-20%)		02/06/23	16:25
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/05/23	18:06
Cobalt		1.23	U	ND	ug/L	N/A		(0%-20%)			
Iron		1080		226	ug/L	4.69		(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/05/23	18:06
Lithium		305		58.2	ug/L	4.46		(0%-20%)			
Magnesium		17700		3080	ug/L	12.8		(0%-20%)			
Manganese		65.4		13.6	ug/L	4.21		(0%-20%)			
Molybdenum		78.1		14.8	ug/L	5.25		(0%-20%)			
Potassium		12000		2170	ug/L	9.63		(0%-20%)			
Selenium		30.5		6.13	ug/L	.502		(0%-20%)			
Sodium		20400		3970	ug/L	2.98		(0%-20%)			
Thallium	J	1.44	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2378878										
QC1205312143	609438010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/07/23	12:21
QC1205312142	LCS										
Mercury		0.00200		0.00209	mg/L		105	(80%-120%)		02/07/23	12:01
QC1205312141	MB										
Mercury			U	ND	mg/L					02/07/23	12:00
QC1205312144	609438010 MS										
Mercury		0.00200	U	ND	0.00200	mg/L		100	(75%-125%)	02/07/23	12:22

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2378878										
QC1205312145	609438010	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	02/07/23	12:24
Solids Analysis											
Batch	2379677										
QC1205313479	609435002	DUP									
Total Dissolved Solids		857		820	mg/L	4.37		(0%-5%)	CH6	02/08/23	11:14
QC1205314103	609211001	DUP									
Total Dissolved Solids		597		602	mg/L	0.834		(0%-5%)		02/08/23	11:14
QC1205313478	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/23	11:14
QC1205313477	MB										
Total Dissolved Solids			U	ND	mg/L					02/08/23	11:14
Spectrometric Analysis											
Batch	2377896										
QC1205310860	LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23	15:53
QC1205310859	MB										
Total Sulfide			U	ND	mg/L					02/06/23	15:53
QC1205310863	609152001	PS									
Total Sulfide	0.400	U	ND	0.183	mg/L		45.7*	(75%-125%)		02/06/23	16:02
QC1205310864	609152001	PSD									
Total Sulfide	0.400	U	ND	0.188	mg/L	2.89	47*	(0%-15%)		02/06/23	16:03

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382489										
QC1205318636	609152001	DUP									
Alkalinity, Total as CaCO3		143		143	mg/L	0.14		(0%-20%)	EK1	02/13/23	10:31
Bicarbonate alkalinity (CaCO3)		143		143	mg/L	0.14		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205319654	609212001	DUP									
Alkalinity, Total as CaCO3		117		118	mg/L	0.17		(0%-20%)		02/13/23	11:40
Bicarbonate alkalinity (CaCO3)		117		118	mg/L	0.17		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205318635	LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23	10:24
QC1205318637	609152001	MS									
Alkalinity, Total as CaCO3	100	143		247	mg/L		104	(80%-120%)		02/13/23	10:34
QC1205319655	609212001	MS									
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)		02/13/23	11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R											
Z											
d											
^											
N/A											
ND											
E											
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 24, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 608969

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2376273										
QC1205308090	608969009	DUP									
Chloride		40.7		40.7	mg/L	0.0246		(0%-20%)	JLD1	02/01/23	02:32
Fluoride	J	0.0767	J	0.0736	mg/L	4.13	^	(+/-0.100)		01/31/23	17:47
Nitrate-N		1.01		1.10	mg/L	7.77		(0%-20%)			
Sulfate		2800		2900	mg/L	3.59		(0%-20%)		02/01/23	04:05
QC1205308089	LCS										
Chloride	5.00			4.95	mg/L			99.1 (90%-110%)		01/31/23	10:32
Fluoride	2.50			2.48	mg/L			99.2 (90%-110%)			
Nitrate-N	2.50			2.45	mg/L			98 (90%-110%)			
Sulfate	10.0			9.94	mg/L			99.4 (90%-110%)			
QC1205308088	MB										
Chloride			U	ND	mg/L					01/31/23	10:02
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205308091	608969009	PS									
Chloride	5.00	4.07		9.53	mg/L			109 (90%-110%)		02/01/23	03:03

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2376273										
Fluoride	2.50	J	0.0767	2.40	mg/L		93	(90%-110%)	JLD1	01/31/23	18:18
Nitrate-N	2.50		1.01	3.67	mg/L		106	(90%-110%)			
Sulfate	10.0		5.60	15.6	mg/L		100	(90%-110%)		02/01/23	04:35
Metals Analysis - ICPMS											
Batch	2376276										
QC1205308094	LCS										
Antimony	0.0500			0.0500	mg/L		100	(80%-120%)	SKJ	02/09/23	19:49
Arsenic	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/23	15:46
Barium	0.0500			0.0489	mg/L		97.9	(80%-120%)		02/09/23	19:49
Beryllium	0.0500			0.0574	mg/L		115	(80%-120%)		02/10/23	15:46
Boron	0.100			0.102	mg/L		102	(80%-120%)	PRB	02/14/23	09:51
Cadmium	0.0500			0.0524	mg/L		105	(80%-120%)	SKJ	02/09/23	19:49
Calcium	2.00			2.18	mg/L		109	(80%-120%)			
Chromium	0.0500			0.0503	mg/L		101	(80%-120%)			
Cobalt	0.0500			0.0495	mg/L		98.9	(80%-120%)			
Iron	2.00			2.03	mg/L		101	(80%-120%)			
Lead	0.0500			0.0506	mg/L		101	(80%-120%)			

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QC Summary

Workorder: 608969

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Lithium	0.0500			0.0576	mg/L		115	(80%-120%)	SKJ	02/09/23	19:49
Magnesium	2.00			2.39	mg/L		119	(80%-120%)		02/14/23	08:04
Manganese	0.0500			0.0501	mg/L		100	(80%-120%)		02/09/23	19:49
Molybdenum	0.0500			0.0526	mg/L		105	(80%-120%)			
Potassium	2.00			2.12	mg/L		106	(80%-120%)		02/10/23	15:46
Selenium	0.0500			0.0531	mg/L		106	(80%-120%)			
Sodium	2.00			2.16	mg/L		108	(80%-120%)		02/09/23	19:49
Thallium	0.0500			0.0500	mg/L		100	(80%-120%)			
QC1205308093	MB										
Antimony			U	ND	mg/L					02/09/23	19:45
Arsenic			U	ND	mg/L					02/10/23	15:43
Barium			U	ND	mg/L					02/09/23	19:45
Beryllium			J	0.000207	mg/L					02/10/23	15:43
Boron			U	ND	mg/L				PRB	02/14/23	09:49
Cadmium			U	ND	mg/L				SKJ	02/09/23	19:45
Calcium			U	ND	mg/L						

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QC Summary

Workorder: 608969

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Chromium			U	ND	mg/L				SKJ	02/09/23	19:45
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L					02/14/23	07:53
Manganese			U	ND	mg/L					02/09/23	19:45
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L					02/10/23	15:43
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L					02/09/23	19:45
Thallium			U	ND	mg/L						
QC1205308095 608969001 MS											
Antimony	0.0500	U	ND	0.0482	mg/L		95.8	(75%-125%)		02/09/23	19:56
Arsenic	0.0500		0.00565	0.0563	mg/L		101	(75%-125%)		02/10/23	17:26
Barium	0.0500		0.0284	0.0794	mg/L		102	(75%-125%)		02/09/23	19:56

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QC Summary

Workorder: 608969

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Beryllium	0.0500	J	0.000318	0.0515	mg/L		102	(75%-125%)	SKJ	02/10/23	17:26
Boron	0.100		0.128	0.219	mg/L		90.5	(75%-125%)	PRB	02/14/23	09:54
Cadmium	0.0500	U	ND	0.0482	mg/L		96.1	(75%-125%)	SKJ	02/10/23	17:26
Calcium	2.00		217	219	mg/L		N/A	(75%-125%)		02/10/23	16:40
Chromium	0.0500	U	ND	0.0510	mg/L		100	(75%-125%)		02/09/23	19:56
Cobalt	0.0500		0.345	0.404	mg/L		N/A	(75%-125%)			
Iron	2.00		17.8	20.5	mg/L		N/A	(75%-125%)			
Lead	0.0500	U	ND	0.0456	mg/L		90.8	(75%-125%)			
Lithium	0.0500		0.0131	0.0720	mg/L		118	(75%-125%)			
Magnesium	2.00		303	306	mg/L		N/A	(75%-125%)		02/14/23	08:16
Manganese	0.0500		109	115	mg/L		N/A	(75%-125%)		02/10/23	15:52
Molybdenum	0.0500	J	0.000675	0.0560	mg/L		111	(75%-125%)		02/09/23	19:56
Potassium	2.00		10.8	13.2	mg/L		N/A	(75%-125%)		02/10/23	17:26
Selenium	0.0500		0.00817	0.0623	mg/L		108	(75%-125%)			
Sodium	2.00		62.9	64.2	mg/L		N/A	(75%-125%)		02/10/23	16:40

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Thallium	0.0500	U	ND	0.0467	mg/L		93.2	(75%-125%)	SKJ	02/09/23	19:56
QC1205308096	608969001	MSD									
Antimony	0.0500	U	ND	0.0491	mg/L	1.71	97.5	(0%-20%)		02/09/23	19:59
Arsenic	0.0500		0.00565	0.0587	mg/L	4.11	106	(0%-20%)		02/10/23	17:29
Barium	0.0500		0.0284	0.0805	mg/L	1.36	104	(0%-20%)		02/09/23	19:59
Beryllium	0.0500	J	0.000318	0.0527	mg/L	2.33	105	(0%-20%)		02/10/23	17:29
Boron	0.100		0.128	0.222	mg/L	1.59	94	(0%-20%)	PRB	02/14/23	09:56
Cadmium	0.0500	U	ND	0.0500	mg/L	3.75	99.8	(0%-20%)	SKJ	02/10/23	17:29
Calcium	2.00		217	231	mg/L	5.2	N/A	(0%-20%)		02/10/23	16:43
Chromium	0.0500	U	ND	0.0516	mg/L	1.2	102	(0%-20%)		02/09/23	19:59
Cobalt	0.0500		0.345	0.409	mg/L	1.22	N/A	(0%-20%)			
Iron	2.00		17.8	20.6	mg/L	0.871	N/A	(0%-20%)			
Lead	0.0500	U	ND	0.0464	mg/L	1.58	92.3	(0%-20%)			
Lithium	0.0500		0.0131	0.0716	mg/L	0.614	117	(0%-20%)			
Magnesium	2.00		303	323	mg/L	5.48	N/A	(0%-20%)		02/14/23	08:18
Manganese	0.0500		109	115	mg/L	0.68	N/A	(0%-20%)		02/10/23	15:54

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Molybdenum	0.0500	J	0.000675	0.0575	mg/L	2.65	114	(0%-20%)	SKJ	02/09/23	19:59
Potassium	2.00		10.8	13.4	mg/L	1.65	N/A	(0%-20%)		02/10/23	17:29
Selenium	0.0500		0.00817	0.0629	mg/L	0.902	109	(0%-20%)			
Sodium	2.00		62.9	67.8	mg/L	5.49	N/A	(0%-20%)		02/10/23	16:43
Thallium	0.0500	U	ND	0.0472	mg/L	1.06	94.2	(0%-20%)		02/09/23	19:59
QC1205308097	608969001	SDILT									
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/09/23	20:06
Arsenic			5.65	U	ND	ug/L	N/A	(0%-20%)		02/10/23	17:34
Barium			28.4		5.78	ug/L	1.56	(0%-20%)		02/09/23	20:06
Beryllium		J	0.318	U	ND	ug/L	N/A	(0%-20%)		02/10/23	17:34
Boron			128		33.5	ug/L	30.7	(0%-20%)	PRB	02/14/23	10:00
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)	SKJ	02/10/23	17:34
Calcium			21700	E	3280	ug/L	24.4*	(0%-20%)		02/10/23	16:46
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/09/23	20:06
Cobalt			345		72.5	ug/L	5.03	(0%-20%)			
Iron			17800		3740	ug/L	4.91	(0%-20%)			

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QC Summary

Workorder: 608969

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/09/23	20:06
Lithium		13.1	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		30300	E	4690	ug/L	22.5*		(0%-20%)		02/14/23	08:19
Manganese		218		43.8	ug/L	.485		(0%-20%)		02/10/23	15:57
Molybdenum	J	0.675	U	ND	ug/L	N/A		(0%-20%)		02/09/23	20:06
Potassium		10800		2010	ug/L	7.21		(0%-20%)		02/10/23	17:34
Selenium		8.17	J	1.77	ug/L	8.24		(0%-20%)			
Sodium		6290	E	940	ug/L	25.2*		(0%-20%)		02/10/23	16:46
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23	20:06
Metals Analysis-Mercury											
Batch	2376750										
QC1205308832	609006008	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/23	10:07
QC1205308831	LCS										
Mercury	0.00200			0.00206	mg/L		103	(80%-120%)		02/02/23	09:38
QC1205308830	MB										
Mercury			U	ND	mg/L					02/02/23	09:36
QC1205308833	609006008	MS									
Mercury	0.00200	U	ND	0.00212	mg/L		105	(75%-125%)		02/02/23	10:08

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2376750										
QC1205308834	609006008	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	02/02/23	10:10
Solids Analysis											
Batch	2377347										
QC1205309759	608803013	DUP									
Total Dissolved Solids		2280		2240	mg/L	1.68		(0%-5%)	CH6	02/02/23	14:28
QC1205309760	608969004	DUP									
Total Dissolved Solids		898		882	mg/L	1.8		(0%-5%)		02/02/23	14:28
QC1205309758	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/02/23	14:28
QC1205309757	MB										
Total Dissolved Solids			U	ND	mg/L					02/02/23	14:28
Spectrometric Analysis											
Batch	2376122										
QC1205307836	LCS										
Total Sulfide	0.400			0.396	mg/L		99	(85%-115%)	HH2	02/02/23	11:42
QC1205307835	MB										
Total Sulfide			U	ND	mg/L					02/02/23	11:42
QC1205307839	608815006	PS									
Total Sulfide	0.400	U	ND	0.367	mg/L		86.7	(75%-125%)		02/02/23	11:47
QC1205307840	608815006	PSD									
Total Sulfide	0.400	U	ND	0.374	mg/L	1.88	88.4	(0%-15%)		02/02/23	11:48
Batch	2377896										
QC1205310860	LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23	15:53

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch 2377896											
QC1205310859 MB											
Total Sulfide			U	ND	mg/L				HH2	02/06/23	15:53
QC1205310863 609152001 PS											
Total Sulfide	0.400	U	ND	0.183	mg/L		45.7*	(75%-125%)		02/06/23	16:02
QC1205310864 609152001 PSD											
Total Sulfide	0.400	U	ND	0.188	mg/L	2.89	47*	(0%-15%)		02/06/23	16:03
Titration and Ion Analysis											
Batch 2382211											
QC1205317833 608969001 DUP											
Alkalinity, Total as CaCO3		62.4		62.8	mg/L	0.639		(0%-20%)	EK1	02/10/23	15:15
Bicarbonate alkalinity (CaCO3)		62.4		62.8	mg/L	0.639		(0%-20%)			
Carbonate alkalinity (CaCO3)			U	ND	U	ND		N/A			
QC1205317832 LCS											
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/10/23	15:10
QC1205317834 608969001 MS											
Alkalinity, Total as CaCO3	100	62.4		170	mg/L		107	(80%-120%)		02/10/23	15:18

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R											
Z											
d											
^											
N/A											
ND											
E											
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 24, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 608602

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2374768										
QC1205305382	608602001	DUP									
Chloride		5.84		5.87	mg/L	0.538		(0%-20%)	HXC1	01/26/23	21:55
Fluoride		0.130		0.180	mg/L	31.8	^	(+/-0.100)			
Nitrate-N	U	ND	U	ND	mg/L	N/A				01/26/23	23:25
Sulfate		41.0		41.1	mg/L	0.217		(0%-20%)			
QC1205305381	LCS										
Chloride	5.00			4.83	mg/L			96.6 (90%-110%)		01/26/23	21:25
Fluoride	2.50			2.61	mg/L			104 (90%-110%)			
Nitrate-N	2.50			2.49	mg/L			99.4 (90%-110%)			
Sulfate	10.0			10.0	mg/L			100 (90%-110%)			
QC1205305380	MB										
Chloride			U	ND	mg/L					01/26/23	19:56
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205305383	608602001	PS									
Chloride	5.00	5.84		11.6	mg/L			115* (90%-110%)		01/26/23	22:25

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2374768										
Fluoride	2.50	0.130		2.78	mg/L		106	(90%-110%)	HXC1	01/26/23	22:25
Nitrate-N	2.50	U	ND	2.47	mg/L		98.7	(90%-110%)		01/26/23	23:55
Sulfate	10.0	8.20		18.7	mg/L		105	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2374786										
QC1205305393	LCS										
Antimony	0.0500			0.0526	mg/L		105	(80%-120%)	SKJ	02/08/23	17:36
Arsenic	0.0500			0.0527	mg/L		105	(80%-120%)			
Barium	0.0500			0.0508	mg/L		102	(80%-120%)			
Beryllium	0.0500			0.0597	mg/L		119	(80%-120%)		02/07/23	18:32
Boron	0.100			0.119	mg/L		119	(80%-120%)		02/08/23	17:36
Cadmium	0.0500			0.0538	mg/L		108	(80%-120%)			
Calcium	2.00			2.20	mg/L		110	(80%-120%)			
Chromium	0.0500			0.0522	mg/L		104	(80%-120%)			
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)			
Iron	2.00			2.04	mg/L		102	(80%-120%)			
Lead	0.0500			0.0526	mg/L		105	(80%-120%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Lithium	0.0500			0.0571	mg/L		114	(80%-120%)	SKJ	02/07/23	18:32
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/08/23	17:36
Manganese	0.0500			0.0518	mg/L		104	(80%-120%)			
Molybdenum	0.0500			0.0547	mg/L		109	(80%-120%)			
Potassium	2.00			2.06	mg/L		103	(80%-120%)			
Selenium	0.0500			0.0527	mg/L		105	(80%-120%)			
Sodium	2.00			2.24	mg/L		112	(80%-120%)			
Thallium	0.0500			0.0516	mg/L		103	(80%-120%)			
QC1205305392	MB										
Antimony			U	ND	mg/L					02/08/23	17:32
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					02/07/23	18:29
Boron			U	ND	mg/L					02/08/23	17:32
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Chromium			U	ND	mg/L				SKJ	02/08/23	17:32
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L					02/07/23	18:29
Magnesium			U	ND	mg/L					02/08/23	17:32
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205305394 608602001 MS											
Antimony	0.0500	U	ND	0.0535	mg/L		107	(75%-125%)		02/08/23	19:13
Arsenic	0.0500	J	0.00221	0.0524	mg/L		100	(75%-125%)			
Barium	0.0500		0.0498	0.0988	mg/L		97.9	(75%-125%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Beryllium	0.0500	U	ND	0.0601	mg/L		120	(75%-125%)	SKJ	02/07/23	18:40
Boron	0.100		1.47	1.54	mg/L		N/A	(75%-125%)		02/08/23	17:43
Cadmium	0.0500	U	ND	0.0530	mg/L		106	(75%-125%)		02/08/23	19:13
Calcium	2.00		25.1	27.8	mg/L		N/A	(75%-125%)			
Chromium	0.0500	U	ND	0.0520	mg/L		103	(75%-125%)			
Cobalt	0.0500	U	ND	0.0513	mg/L		102	(75%-125%)			
Iron	2.00	J	0.0504	2.04	mg/L		99.6	(75%-125%)			
Lead	0.0500	U	ND	0.0518	mg/L		104	(75%-125%)			
Lithium	0.0500	J	0.00728	0.0653	mg/L		116	(75%-125%)		02/07/23	18:40
Magnesium	2.00		10.8	13.1	mg/L		N/A	(75%-125%)		02/08/23	19:13
Manganese	0.0500		0.396	0.459	mg/L		N/A	(75%-125%)		02/09/23	11:05
Molybdenum	0.0500	U	ND	0.0554	mg/L		111	(75%-125%)		02/08/23	19:13
Potassium	2.00		2.95	5.22	mg/L		114	(75%-125%)			
Selenium	0.0500	U	ND	0.0492	mg/L		98.3	(75%-125%)			
Sodium	2.00		12.5	14.9	mg/L		N/A	(75%-125%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Thallium	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)	SKJ	02/08/23	19:13
QC1205305395 608602001 MSD											
Antimony	0.0500	U	ND	0.0526	mg/L	1.66	105	(0%-20%)		02/08/23	19:17
Arsenic	0.0500	J	0.00221	0.0525	mg/L	0.168	101	(0%-20%)			
Barium	0.0500		0.0498	0.0968	mg/L	2	94	(0%-20%)			
Beryllium	0.0500	U	ND	0.0617	mg/L	2.74	123	(0%-20%)		02/07/23	18:43
Boron	0.100		1.47	1.61	mg/L	4.7	N/A	(0%-20%)		02/08/23	17:47
Cadmium	0.0500	U	ND	0.0544	mg/L	2.71	109	(0%-20%)		02/08/23	19:17
Calcium	2.00		25.1	27.2	mg/L	2.09	N/A	(0%-20%)			
Chromium	0.0500	U	ND	0.0516	mg/L	0.689	102	(0%-20%)			
Cobalt	0.0500	U	ND	0.0501	mg/L	2.39	99.8	(0%-20%)			
Iron	2.00	J	0.0504	2.01	mg/L	1.41	98.2	(0%-20%)			
Lead	0.0500	U	ND	0.0502	mg/L	3.16	100	(0%-20%)			
Lithium	0.0500	J	0.00728	0.0658	mg/L	0.747	117	(0%-20%)		02/07/23	18:43
Magnesium	2.00		10.8	13.2	mg/L	0.43	N/A	(0%-20%)		02/08/23	19:17
Manganese	0.0500		0.396	0.444	mg/L	3.41	N/A	(0%-20%)		02/09/23	11:07

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Molybdenum	0.0500	U	ND	0.0559	mg/L	0.82	112	(0%-20%)	SKJ	02/08/23	19:17
Potassium	2.00		2.95	5.12	mg/L	1.87	109	(0%-20%)			
Selenium	0.0500	U	ND	0.0498	mg/L	1.27	99.6	(0%-20%)			
Sodium	2.00		12.5	14.4	mg/L	3.52	N/A	(0%-20%)			
Thallium	0.0500	U	ND	0.0494	mg/L	3.8	98.8	(0%-20%)			
QC1205305396 608602001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/08/23	19:24
Arsenic		J	2.21	U	ND	ug/L	N/A	(0%-20%)			
Barium			49.8		9.94	ug/L	.173	(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/07/23	18:50
Boron			147		37.0	ug/L	26.2	(0%-20%)		02/08/23	17:50
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/08/23	19:24
Calcium			25100		5080	ug/L	1.08	(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Iron		J	50.4	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374786										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/08/23	19:24
Lithium	J	7.28	U	ND	ug/L	N/A		(0%-20%)		02/07/23	18:50
Magnesium		10800		2170	ug/L	.232		(0%-20%)		02/08/23	19:24
Manganese		396		79.8	ug/L	.655		(0%-20%)		02/09/23	11:11
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/08/23	19:24
Potassium		2950		585	ug/L	.814		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		12500		2450	ug/L	1.88		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2375028										
QC1205305820	608516009	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/30/23	12:15
QC1205305819	LCS										
Mercury	0.00200			0.00188	mg/L		93.8	(80%-120%)		01/30/23	12:07
QC1205305818	MB										
Mercury			U	ND	mg/L					01/30/23	12:05
QC1205305821	608516009	MS									
Mercury	0.00200	U	ND	0.00184	mg/L		91.9	(75%-125%)		01/30/23	12:17

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2375028										
QC1205305822	608516009	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	01/30/23	12:19
Solids Analysis											
Batch	2376740										
QC1205308815	608602001	DUP									
Total Dissolved Solids		156		154	mg/L	1.29		(0%-5%)	CH6	02/01/23	11:35
QC1205308813	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		02/01/23	11:35
QC1205308812	MB										
Total Dissolved Solids			U	ND	mg/L					02/01/23	11:35
Spectrometric Analysis											
Batch	2374524										
QC1205304986	LCS										
Total Sulfide	0.400			0.402	mg/L		101	(85%-115%)	JW2	01/30/23	15:42
QC1205304985	MB										
Total Sulfide			U	ND	mg/L					01/30/23	15:42
QC1205305514	608602006	PS									
Total Sulfide	0.400	U	ND	0.438	mg/L		109	(75%-125%)		01/30/23	15:42
QC1205305515	608602006	PSD									
Total Sulfide	0.400	U	ND	0.428	mg/L	2.32	107	(0%-15%)		01/30/23	15:42
Batch	2375142										
QC1205306028	LCS										
Total Sulfide	0.400			0.413	mg/L		103	(85%-115%)	JW2	01/30/23	15:41
QC1205306027	MB										
Total Sulfide			U	ND	mg/L					01/30/23	15:41

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2375142										
QC1205306031	608614004	PS									
Total Sulfide	0.400	U	ND	0.392	mg/L		96.8	(75%-125%)	JW2	01/30/23	15:42
QC1205306032	608614004	PSD									
Total Sulfide	0.400	U	ND	0.382	mg/L	2.6	94.3	(0%-15%)		01/30/23	15:42
Titration and Ion Analysis											
Batch	2378173										
QC1205311290	608567004	DUP									
Alkalinity, Total as CaCO3			82.4	82.6	mg/L	0.242		(0%-20%)	EK1	02/06/23	10:43
Bicarbonate alkalinity (CaCO3)			82.4	82.6	mg/L	0.242		(0%-20%)			
Carbonate alkalinity (CaCO3)			0.000	U	ND	mg/L	0 ^	(+/-4.00)			
QC1205311289	LCS										
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/06/23	10:34
QC1205311291	608567004	MS									
Alkalinity, Total as CaCO3	100		82.4	185	mg/L		103	(80%-120%)		02/06/23	11:06

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample

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QC Summary

Workorder: 608602

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
^											
N/A											
ND											
E											
NJ											
E											
Q											
FB											
N1											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 27, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 608413

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2374002										
QC1205304359	608413001	DUP									
Chloride		3.79		3.79	mg/L	0.124		(0%-20%)	HXC1	01/25/23	19:29
Fluoride	J	0.0926	J	0.0925	mg/L	0.108	^	(+/-0.100)			
Nitrate-N		0.945		0.920	mg/L	2.68	^	(+/-0.500)		01/25/23	23:05
Sulfate		0.628		0.612	mg/L	2.71	^	(+/-0.400)		01/25/23	19:29
QC1205304358	LCS										
Chloride	5.00			4.87	mg/L			97.3 (90%-110%)		01/25/23	20:31
Fluoride	2.50			2.53	mg/L			101 (90%-110%)			
Nitrate-N	2.50			2.43	mg/L			97.2 (90%-110%)			
Sulfate	10.0			9.76	mg/L			97.6 (90%-110%)			
QC1205304357	MB										
Chloride			U	ND	mg/L					01/25/23	21:02
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205304360	608413001	PS									
Chloride	5.00	3.79		9.31	mg/L			110 (90%-110%)		01/25/23	20:00

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2374002										
Fluoride	2.50	J	0.0926	2.68	mg/L		104	(90%-110%)	HXC1	01/25/23	20:00
Nitrate-N	2.50		0.189	2.65	mg/L		98.2	(90%-110%)		01/25/23	23:36
Sulfate	10.0		0.628	10.6	mg/L		99.5	(90%-110%)		01/25/23	20:00
Metals Analysis - ICPMS											
Batch	2374301										
QC1205304629	LCS										
Antimony	0.0500			0.0512	mg/L		102	(80%-120%)	SKJ	02/01/23	18:21
Arsenic	0.0500			0.0540	mg/L		108	(80%-120%)		02/03/23	14:21
Barium	0.0500			0.0494	mg/L		98.9	(80%-120%)		02/01/23	18:21
Beryllium	0.0500			0.0599	mg/L		120	(80%-120%)		02/03/23	14:21
Boron	0.100			0.113	mg/L		113	(80%-120%)			
Cadmium	0.0500			0.0524	mg/L		105	(80%-120%)		02/01/23	18:21
Calcium	2.00			2.14	mg/L		107	(80%-120%)			
Chromium	0.0500			0.0525	mg/L		105	(80%-120%)			
Cobalt	0.0500			0.0523	mg/L		105	(80%-120%)			
Iron	2.00			2.04	mg/L		102	(80%-120%)			
Lead	0.0500			0.0549	mg/L		110	(80%-120%)		02/03/23	14:21

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QC Summary

Workorder: 608413

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Lithium	0.0500			0.0574	mg/L		115	(80%-120%)	SKJ	02/03/23	14:21
Magnesium	2.00			2.36	mg/L		118	(80%-120%)			
Manganese	0.0500			0.0508	mg/L		102	(80%-120%)		02/01/23	18:21
Molybdenum	0.0500			0.0539	mg/L		108	(80%-120%)		02/03/23	14:21
Potassium	2.00			2.08	mg/L		104	(80%-120%)		02/01/23	18:21
Selenium	0.0500			0.0500	mg/L		100	(80%-120%)			
Sodium	2.00			2.23	mg/L		111	(80%-120%)			
Thallium	0.0500			0.0526	mg/L		105	(80%-120%)			
QC1205304628	MB										
Antimony			U	ND	mg/L					02/01/23	18:18
Arsenic			U	ND	mg/L					02/03/23	14:18
Barium			U	ND	mg/L					02/01/23	18:18
Beryllium			U	ND	mg/L					02/03/23	14:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L					02/01/23	18:18
Calcium			U	ND	mg/L						

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Chromium			U	ND	mg/L				SKJ	02/01/23	18:18
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L					02/03/23	14:18
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					02/01/23	18:18
Molybdenum			U	ND	mg/L					02/03/23	14:18
Potassium			U	ND	mg/L					02/01/23	18:18
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205304630 608410001 MS											
Antimony	0.0500	U	ND	0.0516	mg/L		103	(75%-125%)		02/01/23	18:29
Arsenic	0.0500	U	ND	0.0534	mg/L		105	(75%-125%)		02/03/23	15:08
Barium	0.0500		0.0118	0.0604	mg/L		97.3	(75%-125%)		02/01/23	18:29

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Beryllium	0.0500	U	ND	0.0578	mg/L		115	(75%-125%)	SKJ	02/06/23	16:16
Boron	0.100	U	ND	0.125	mg/L		121	(75%-125%)		02/03/23	15:08
Cadmium	0.0500	U	ND	0.0524	mg/L		105	(75%-125%)		02/01/23	18:29
Calcium	2.00		4.86	7.20	mg/L		117	(75%-125%)			
Chromium	0.0500	J	0.00950	0.0628	mg/L		107	(75%-125%)			
Cobalt	0.0500	J	0.000829	0.0532	mg/L		105	(75%-125%)			
Iron	2.00	J	0.0824	2.11	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND	0.0551	mg/L		110	(75%-125%)		02/03/23	15:08
Lithium	0.0500	U	ND	0.0625	mg/L		124	(75%-125%)			
Magnesium	2.00		5.34	7.70	mg/L		118	(75%-125%)			
Manganese	0.0500		0.0348	0.0864	mg/L		103	(75%-125%)		02/01/23	18:29
Molybdenum	0.0500	U	ND	0.0549	mg/L		110	(75%-125%)		02/03/23	15:08
Potassium	2.00		0.432	2.54	mg/L		106	(75%-125%)		02/01/23	18:29
Selenium	0.0500	U	ND	0.0465	mg/L		93.1	(75%-125%)			
Sodium	2.00		3.63	5.85	mg/L		111	(75%-125%)			

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Thallium	0.0500	U	ND	0.0530	mg/L		106	(75%-125%)	SKJ	02/01/23	18:29
QC1205304631 608410001 MSD											
Antimony	0.0500	U	ND	0.0500	mg/L	3.18	99.4	(0%-20%)		02/01/23	18:32
Arsenic	0.0500	U	ND	0.0541	mg/L	1.27	106	(0%-20%)		02/03/23	15:11
Barium	0.0500		0.0118	0.0587	mg/L	3	93.7	(0%-20%)		02/01/23	18:32
Beryllium	0.0500	U	ND	0.0558	mg/L	3.42	112	(0%-20%)		02/06/23	16:18
Boron	0.100	U	ND	0.124	mg/L	0.226	121	(0%-20%)		02/03/23	15:11
Cadmium	0.0500	U	ND	0.0503	mg/L	4.08	101	(0%-20%)		02/01/23	18:32
Calcium	2.00		4.86	7.13	mg/L	0.991	113	(0%-20%)			
Chromium	0.0500	J	0.00950	0.0614	mg/L	2.16	104	(0%-20%)			
Cobalt	0.0500	J	0.000829	0.0530	mg/L	0.458	104	(0%-20%)			
Iron	2.00	J	0.0824	2.06	mg/L	2.49	99	(0%-20%)			
Lead	0.0500	U	ND	0.0543	mg/L	1.38	109	(0%-20%)		02/03/23	15:11
Lithium	0.0500	U	ND	0.0623	mg/L	0.261	123	(0%-20%)			
Magnesium	2.00		5.34	7.85	mg/L	1.81	125	(0%-20%)			
Manganese	0.0500		0.0348	0.0852	mg/L	1.43	101	(0%-20%)		02/01/23	18:32

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Molybdenum	0.0500	U	ND	0.0558	mg/L	1.5	112	(0%-20%)	SKJ	02/03/23	15:11
Potassium	2.00		0.432	2.55	mg/L	0.416	106	(0%-20%)		02/01/23	18:32
Selenium	0.0500	U	ND	0.0467	mg/L	0.333	93.4	(0%-20%)			
Sodium	2.00		3.63	5.71	mg/L	2.43	104	(0%-20%)			
Thallium	0.0500	U	ND	0.0519	mg/L	2.13	104	(0%-20%)			
QC1205304632 608410001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/01/23	18:39
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/03/23	15:17
Barium			11.8	J	2.36	ug/L	.33	(0%-20%)		02/01/23	18:39
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/06/23	16:20
Boron		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/03/23	15:17
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/01/23	18:39
Calcium			4860		1000	ug/L	3.15	(0%-20%)			
Chromium		J	9.50	U	ND	ug/L	N/A	(0%-20%)			
Cobalt		J	0.829	U	ND	ug/L	N/A	(0%-20%)			
Iron		J	82.4	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2374301										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/03/23	15:17
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		5340		1050	ug/L	1.84		(0%-20%)			
Manganese		34.8		6.88	ug/L	1.11		(0%-20%)		02/01/23	18:39
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/03/23	15:17
Potassium		432	J	97.3	ug/L	12.6		(0%-20%)		02/01/23	18:39
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		3630		689	ug/L	4.95		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2374419										
QC1205304806	608391001	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/27/23	10:12
QC1205304805	LCS										
Mercury	0.00200			0.00213	mg/L		106	(80%-120%)		01/27/23	10:08
QC1205304804	MB										
Mercury			U	ND	mg/L					01/27/23	10:07
QC1205304807	608391001	MS									
Mercury	0.00200	U	ND	0.00212	mg/L		106	(75%-125%)		01/27/23	10:13

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2374419										
QC1205304808	608391001	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	01/27/23	10:15
Solids Analysis											
Batch	2376170										
QC1205307926	608418001	DUP									
Total Dissolved Solids		344		341	mg/L	0.876		(0%-5%)	CH6	01/31/23	12:35
QC1205307924	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		01/31/23	12:35
QC1205307923	MB										
Total Dissolved Solids			U	ND	mg/L					01/31/23	12:35
Spectrometric Analysis											
Batch	2374521										
QC1205304980	LCS										
Total Sulfide	0.400			0.402	mg/L		101	(85%-115%)	JW2	01/30/23	15:43
QC1205304979	MB										
Total Sulfide			U	ND	mg/L					01/30/23	15:43
QC1205304981	608410001	PS									
Total Sulfide	0.400	U	ND	0.387	mg/L		96.8	(75%-125%)		01/30/23	15:43
QC1205304983	608418002	PS									
Total Sulfide	0.400	U	ND	0.352	mg/L		86.7	(75%-125%)		01/30/23	15:43
QC1205304982	608410001	PSD									
Total Sulfide	0.400	U	ND	0.392	mg/L	1.29	98.1	(0%-15%)		01/30/23	15:43
QC1205304984	608418002	PSD									
Total Sulfide	0.400	U	ND	0.362	mg/L	2.82	89.3	(0%-15%)		01/30/23	15:43

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2375521										
QC1205307744 608651001 DUP											
Alkalinity, Total as CaCO3	H	54.8	H	54.8	mg/L	0		(0%-20%)	EK1	01/30/23	16:27
Bicarbonate alkalinity (CaCO3)	H	54.8	H	54.8	mg/L	0		(0%-20%)			
Carbonate alkalinity (CaCO3)	HU	ND	HU	ND	mg/L	N/A					
QC1205306666 LCS											
Alkalinity, Total as CaCO3	100			101	mg/L		101	(90%-110%)		01/30/23	15:14
QC1205307745 608651001 MS											
Alkalinity, Total as CaCO3	100	H	54.8	H	157	mg/L		103	(80%-120%)	01/30/23	16:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed

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QC Summary

Workorder: 608413

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 608413**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2374301

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2374300

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304628	Method Blank (MB) ICP-MS
1205304629	Laboratory Control Sample (LCS)
1205304632	608410001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205304630	608410001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205304631	608410001(BRA-BRGWA-2SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 608413004 (BRA-BRGWC-32S) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	608413 004
Boron	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2374419

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2374418

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304804	Method Blank (MB)CVAA
1205304805	Laboratory Control Sample (LCS)
1205304808	608391001(NonSDGL) Serial Dilution (SD)
1205304806	608391001(NonSDGD) Sample Duplicate (DUP)
1205304807	608391001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2374002

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304357	Method Blank (MB)

1205304358 Laboratory Control Sample (LCS)
 1205304359 608413001(BRA-BRGWA-12S) Sample Duplicate (DUP)
 1205304360 608413001(BRA-BRGWA-12S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following sample 608413004 (BRA-BRGWC-32S) was diluted because target analyte concentrations exceeded the calibration range. The following samples 1205304359 (BRA-BRGWA-12SDUP), 1205304360 (BRA-BRGWA-12SPS), 608413001 (BRA-BRGWA-12S), 608413002 (BRA-BRGWA-12I), 608413003 (BRA-BRGWA-23S) and 608413004 (BRA-BRGWC-32S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608413			
	001	002	003	004
Nitrate-N	5X	2X	2X	2X
Sulfate	1X	1X	1X	20X

Miscellaneous Information

Manual Integrations

Samples 608413002 (BRA-BRGWA-12I), 608413003 (BRA-BRGWA-23S) and 608413004 (BRA-BRGWC-32S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2376170

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205307923	Method Blank (MB)
1205307924	Laboratory Control Sample (LCS)
1205307926	608418001(BRA-BRGWC-17S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2374521

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304979	Method Blank (MB)
1205304980	Laboratory Control Sample (LCS)
1205304981	608410001(BRA-BRGWA-2S) Post Spike (PS)
1205304982	608410001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205304983	608418002(BRA-BRGWC-33S) Post Spike (PS)
1205304984	608418002(BRA-BRGWC-33S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2375521

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205306666	Laboratory Control Sample (LCS)
1205307744	608651001(NonSDG) Sample Duplicate (DUP)
1205307745	608651001(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times

Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value
1205307744 (Non SDG 608651001DUP)		Logged 26-JAN-23, out of holding 05-DEC-22
1205307745 (Non SDG 608651001MS)		Logged 26-JAN-23, out of holding 05-DEC-22

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 608602**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2374786

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2374785

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305392	Method Blank (MB)ICP-MS
1205305393	Laboratory Control Sample (LCS)
1205305396	608602001(BRA-PZ-44L) Serial Dilution (SD)
1205305394	608602001(BRA-PZ-44S) Matrix Spike (MS)
1205305395	608602001(BRA-PZ-44SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020A/6020B met the advisory control limits with the exception of boron. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 608602001 (BRA-PZ-44), 608602002 (BRA-APBCD-FD-01), 608602003 (BRA-BRGWC-45), 608602004 (BRA-APBCD-EB-04), 608602005 (BRA-APBCD-FB-01), 608602006 (BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I).

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608602001 (BRA-PZ-44), 608602006 (BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	608602			
	001	006	007	008
Boron	10X	5X	20X	10X
Calcium	1X	5X	1X	10X
Cobalt	1X	5X	1X	1X
Magnesium	1X	5X	1X	1X
Manganese	1X	100X	1X	1X
Sodium	1X	5X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2375028

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2375027

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305818	Method Blank (MB)CVAA
1205305819	Laboratory Control Sample (LCS)
1205305822	608516009(NonSDGL) Serial Dilution (SD)
1205305820	608516009(NonSDGD) Sample Duplicate (DUP)
1205305821	608516009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2374768

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305380	Method Blank (MB)
1205305381	Laboratory Control Sample (LCS)
1205305382	608602001(BRA-PZ-44) Sample Duplicate (DUP)
1205305383	608602001(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205305383 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205305382 (BRA-PZ-44DUP), 1205305383 (BRA-PZ-44PS), 608602001 (BRA-PZ-44), 608602002 (BRA-APBCD-FD-01), 608602003 (BRA-BRGWC-45), 608602006

(BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205305382 (BRA-PZ-44DUP), 1205305383 (BRA-PZ-44PS), 608602001 (BRA-PZ-44) and 608602003 (BRA-BRGWC-45) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608602					
	001	002	003	006	007	008
Chloride	1X	10X	10X	10X	1X	1X
Nitrate-N	5X	1X	2X	1X	1X	1X
Sulfate	5X	10X	10X	200X	20X	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2376740

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205308812	Method Blank (MB)
1205308813	Laboratory Control Sample (LCS)
1205308815	608602001(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2374524

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44

608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
1205304985	Method Blank (MB)
1205304986	Laboratory Control Sample (LCS)
1205305514	608602006(BRA-BRGWC-50) Post Spike (PS)
1205305515	608602006(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2375142

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205306027	Method Blank (MB)
1205306028	Laboratory Control Sample (LCS)
1205306031	608614004(BRA-PZ-53D) Post Spike (PS)
1205306032	608614004(BRA-PZ-53D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2378173

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45

608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205311289	Laboratory Control Sample (LCS)
1205311290	608567004(NonSDG) Sample Duplicate (DUP)
1205311291	608567004(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 608803**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2375324

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2375322

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205306362	Method Blank (MB) ICP-MS
1205306363	Laboratory Control Sample (LCS)
1205306366	608803001(BRA-BRGWC-25IL) Serial Dilution (SD)
1205306364	608803001(BRA-BRGWC-25IS) Matrix Spike (MS)
1205306365	608803001(BRA-BRGWC-25ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608803001 (BRA-BRGWC-25I), 608803002 (BRA-BRGWC-29I), 608803003 (BRA-BRGWC-30I), 608803006 (BRA-PZ-51I), 608803007 (BRA-APBCD-FD-02), 608803008 (BRA-BRGWC-47), 608803009 (BRA-PZ-51D), 608803010 (BRA-PZ-58I), 608803011 (BRA-PZ-59I), 608803012 (BRA-PZ-60I), 608803013 (BRA-PZ-61I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 608803011 (BRA-PZ-59I) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	608803									
	001	002	003	006	007	008	009	010	011	012
Barium	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Boron	20X	10X	20X	10X	10X	10X	1X	10X	1X	10X
Calcium	20X	10X	20X	10X	10X	10X	10X	10X	100X	10X
Cobalt	1X	1X	1X	1X	1X	1X	1X	1X	5X	10X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	100X	1X
Lead	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Magnesium	1X	1X	20X	10X	10X	10X	1X	10X	5X	10X
Manganese	20X	10X	20X	100X	100X	1X	10X	100X	100X	1000X
Sodium	1X	1X	1X	1X	1X	1X	10X	1X	5X	10X
Thallium	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X

Analyte	608803		
	013	014	015
Boron	10X	1X	10X
Calcium	10X	10X	10X
Iron	1X	10X	1X
Magnesium	10X	10X	10X
Manganese	1000X	100X	100X
Sodium	10X	10X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2375754

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2375753

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205307094	Method Blank (MB)CVAA
1205307095	Laboratory Control Sample (LCS)
1205307098	608803003(BRA-BRGWC-30IL) Serial Dilution (SD)
1205307096	608803003(BRA-BRGWC-30ID) Sample Duplicate (DUP)
1205307097	608803003(BRA-BRGWC-30IS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2375330

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
1205306396	Method Blank (MB)
1205306397	Laboratory Control Sample (LCS)
1205306398	608658011(NonSDG) Sample Duplicate (DUP)
1205306399	608658011(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205306398 (Non SDG 608658011DUP), 1205306399 (Non SDG 608658011PS), 608803001 (BRA-BRGWC-25I), 608803002 (BRA-BRGWC-29I), 608803003 (BRA-BRGWC-30I), 608803006 (BRA-PZ-51I) and 608803007 (BRA-APBCD-FD-02) were diluted because target analyte concentrations exceeded the calibration range. The following sample 608803001 (BRA-BRGWC-25I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608803				
	001	002	003	006	007
Chloride	1X	1X	1X	2X	5X
Nitrate-N	5X	1X	1X	1X	1X
Sulfate	20X	25X	100X	100X	100X

Miscellaneous Information

Manual Integrations

Samples 608803002 (BRA-BRGWC-29I) and 608803007 (BRA-APBCD-FD-02) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2375336

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205306401	Method Blank (MB)
1205306402	Laboratory Control Sample (LCS)

1205306403 608803015(BRA-PZ-50D) Sample Duplicate (DUP)
 1205306404 608803015(BRA-PZ-50D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205306404 (BRA-PZ-50DPS)	111* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205306403 (BRA-PZ-50DDUP), 1205306404 (BRA-PZ-50DPS), 608803008 (BRA-BRGWC-47), 608803009 (BRA-PZ-51D), 608803010 (BRA-PZ-58I), 608803011 (BRA-PZ-59I), 608803012 (BRA-PZ-60I), 608803013 (BRA-PZ-61I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205306403 (BRA-PZ-50DDUP), 1205306404 (BRA-PZ-50DPS), 608803011 (BRA-PZ-59I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608803							
	008	009	010	011	012	013	014	015
Chloride	1X	40X	2X	10X	5X	5X	5X	2X
Fluoride	1X	1X	1X	10X	1X	1X	1X	2X
Nitrate-N	1X	1X	1X	10X	1X	1X	5X	1X
Sulfate	200X	40X	100X	500X	200X	200X	200X	100X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2376741

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I

608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
1205308816	Method Blank (MB)
1205308817	Laboratory Control Sample (LCS)
1205308819	608803009(BRA-PZ-51D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2377347

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205309757	Method Blank (MB)
1205309758	Laboratory Control Sample (LCS)
1205309759	608803013(BRA-PZ-61I) Sample Duplicate (DUP)
1205309760	608969004(BRA-PZ-57I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2375859

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
1205307354	Method Blank (MB)
1205307355	Laboratory Control Sample (LCS)
1205307356	608803001(BRA-BRGWC-25I) Post Spike (PS)
1205307357	608803001(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205307356 (BRA-BRGWC-25IPS)	67.5* (75%-125%)
	1205307357 (BRA-BRGWC-25IPSD)	69.7* (75%-125%)

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2376122

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205307835	Method Blank (MB)

1205307836	Laboratory Control Sample (LCS)
1205307839	608815006(BRA-PZ-52D) Post Spike (PS)
1205307840	608815006(BRA-PZ-52D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2378066

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
1205311155	Laboratory Control Sample (LCS)
1205311156	608803001(BRA-BRGWC-25I) Sample Duplicate (DUP)
1205311157	608803001(BRA-BRGWC-25I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

<4.5 pH values were confirmed by pH strip 608803002 (BRA-BRGWC-29I), 608803007 (BRA-APBCD-FD-02) and 608803010 (BRA-PZ-58I).

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2378067

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205311158	Laboratory Control Sample (LCS)
1205313003	608803012(BRA-PZ-60I) Sample Duplicate (DUP)
1205313004	608803012(BRA-PZ-60I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

pH value <4.5 was validated by pH strip 608803011 (BRA-PZ-59I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 608969**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2376276

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2376275

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205308093	Method Blank (MB)ICP-MS
1205308094	Laboratory Control Sample (LCS)
1205308097	608969001(BRA-PZ-66IL) Serial Dilution (SD)
1205308095	608969001(BRA-PZ-66IS) Matrix Spike (MS)
1205308096	608969001(BRA-PZ-66ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the

IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205308097 (BRA-PZ-66ISDILT)	Calcium	24.4 *(0%-20%)
	Magnesium	22.5 *(0%-20%)
	Sodium	25.2 *(0%-20%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608969001 (BRA-PZ-66I), 608969004 (BRA-PZ-57I), 608969005 (BRA-APBCD-FD03), 608969006 (BRA-PZ-63I), 608969007 (BRA-PZ-62I), 608969008 (BRA-PZ-51S) and 608969009 (BRA-PZ-64I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	608969						
	001	004	005	006	007	008	009
Boron	1X	5X	5X	10X	5X	1X	1X
Calcium	10X	5X	5X	1X	5X	1X	10X
Cobalt	1X	1X	1X	1X	1X	1X	20X
Magnesium	10X	5X	5X	1X	5X	1X	10X
Manganese	500X	100X	100X	10X	100X	5X	500X
Sodium	10X	1X	1X	1X	1X	1X	5X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2376750

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2376749

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S

608969009	BRA-PZ-64I
1205308830	Method Blank (MB)CVAA
1205308831	Laboratory Control Sample (LCS)
1205308834	609006008(NonSDGL) Serial Dilution (SD)
1205308832	609006008(NonSDGD) Sample Duplicate (DUP)
1205308833	609006008(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2376273

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205308088	Method Blank (MB)
1205308089	Laboratory Control Sample (LCS)
1205308090	608969009(BRA-PZ-64I) Sample Duplicate (DUP)
1205308091	608969009(BRA-PZ-64I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205308090 (BRA-PZ-64IDUP), 1205308091 (BRA-PZ-64IPS), 608969001 (BRA-PZ-66I), 608969004 (BRA-PZ-57I), 608969005 (BRA-APBCD-FD03), 608969006 (BRA-PZ-63I), 608969007 (BRA-PZ-62I) and 608969009 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix

interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608969					
	001	004	005	006	007	009
Chloride	5X	1X	5X	1X	5X	10X
Sulfate	200X	200X	200X	25X	100X	500X

Sample Re-analysis

Sample 608969002 (BRA-APBCD-FB-03) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported. Sample 608969002 (BRA-APBCD-FB-03) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations

Samples 1205308090 (BRA-PZ-64IDUP) and 608969008 (BRA-PZ-51S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2377347

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205309757	Method Blank (MB)
1205309758	Laboratory Control Sample (LCS)
1205309759	608803013(BRA-PZ-61I) Sample Duplicate (DUP)
1205309760	608969004(BRA-PZ-57I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2376122

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
1205307835	Method Blank (MB)
1205307836	Laboratory Control Sample (LCS)
1205307839	608815006(BRA-PZ-52D) Post Spike (PS)
1205307840	608815006(BRA-PZ-52D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969009	BRA-PZ-64I
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is

less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382211

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205317832	Laboratory Control Sample (LCS)
1205317833	608969001(BRA-PZ-66I) Sample Duplicate (DUP)
1205317834	608969001(BRA-PZ-66I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 609212**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2377747

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2377746

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310467	Method Blank (MB)ICP-MS
1205310468	Laboratory Control Sample (LCS)
1205310471	609211001(BRA-IW-B-1L) Serial Dilution (SD)
1205310469	609211001(BRA-IW-B-1S) Matrix Spike (MS)
1205310470	609211001(BRA-IW-B-1SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609212	
	001	002
Boron	5X	10X

Calcium	5X	10X
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Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2378878

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2378875

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205312141	Method Blank (MB)CVAA
1205312142	Laboratory Control Sample (LCS)
1205312145	609438010(NonSDGL) Serial Dilution (SD)
1205312143	609438010(NonSDGD) Sample Duplicate (DUP)
1205312144	609438010(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2377739

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310453	Method Blank (MB)
1205310454	Laboratory Control Sample (LCS)
1205310455	609211001(BRA-IW-B-1) Sample Duplicate (DUP)
1205310456	609211001(BRA-IW-B-1) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205310456 (BRA-IW-B-1PS)	114* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS), 609212001 (BRA-PZ-68D) and 609212002 (BRA-PZ-69I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205310455 (BRA-IW-B-1DUP) and 1205310456 (BRA-IW-B-1PS) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609212	
	001	002
Chloride	20X	1X
Sulfate	20X	20X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2379677

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205313477	Method Blank (MB)
1205313478	Laboratory Control Sample (LCS)
1205313479	609435002(NonSDG) Sample Duplicate (DUP)
1205314103	609211001(BRA-IW-B-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205314103 (BRA-IW-B-1DUP).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
 Project # **608969**
 GEL Quote #: **608972**
 COC Number U: _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *J. Beckwith* ACC
 Send Results To: SCS & Geosyntec Contacts

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiocassay | Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Work Order Number: _____
 GEL Project Manager: *Erin Trent*
 Phone # 404-506-7116
 Fax # _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (3)	Field Filtered (2)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments
						Radioactive (if Y, please supply isotope info)	Known or possible hazards		Metals *	Radionuclides	Sulfide	Preservative Type (6)	
BRA-PZ-661	01/30/23	1420	G	N	WG			8	NI	NI	NI	SM 4500	← Preservative Type (6) Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023SI field pH = 5.64 field ferrous iron = 6.0
BRA-APBCD-FB-03	02/03/23	1350	G	N	WG			8	✓	✓	✓		field pH = _____ field ferrous iron = _____
BRA-APBCD-FB-06	01/30/23	1515	G	N	WG			8	✓	✓	✓		field pH = _____ field ferrous iron = _____
BRA-PZ-571	02/03/23	1425	G	N	WG			8	✓	✓	✓		field pH = 5.39 field ferrous iron = 1.0
BRA-APBCD-FD-03	01/30/23	---	G	N	WG			8	✓	✓	✓		field pH = _____ field ferrous iron = _____

Chain of Custody Signatures
 Relinquished By (Signed) *[Signature]* Date *1/31/23* Time _____
 Received by (signed) _____ Date _____ Time _____
 1. *[Signature]* Date *1/30/23* Time *1800*
 2. *[Signature]* Date *1/31/23* Time *0901*
 3. _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, I, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: *2* °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Settlement, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes), Waste code(s): _____
 Other: OI = Other / Unknown (i.e. High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals, Pb = Lead
 TSCA Regulated: PCB = Polychlorinated biphenyls
 Please provide any additional details below regarding handling and/or disposal concerns: (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *D. Ryan* ACC
 Send Results To: SCS & Geosyntec Contacts

Sample ID	Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered	Sample Matrix
BRA-PZ-63I	01/30/23 02/16/23	1340	G	N	WG
BRA-PZ-62I	01/30/23 02/16/23	1300	G	N	WG
BRA-PZ-51S	01/30/23 02/16/23	1530	G	N	WG
BRA-PZ-64I	01/30/23 02/16/23	1700	G	N	WG

* For composites - indicate start and stop date/time
 Total number of containers: 8
 Should this sample be considered:
 () Known or possible hazards
 () Radiactive (if isotopic info. Yes, please supply)

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>Erin Trent</i>	2/13/23	1800	<i>Dave Papp</i>	1/30/23	1800
<i>Dave Papp</i>	1/31/23	0901	<i>Erin Trent</i>	1/30/23	1800

Chain of Custody Signatures
 TAT Requested: Normal: Rush: _____ Specify: _____
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

Sample Analysis Requested (S)	(Fill in the number of containers for each test)	Preservative Type (6)	Comments
Cl, F, SO4, TDS, NO3 EPA 309, SM 2540C	8		field pH = 5.66
Total & Bicarb Alk SM 2320B	8		field ferrous iron = 1.0
Metals * EPA 6020, 6010, 7470	8		field pH = 5.38
Radium 226 & 228 SW-846 9315, 9320	8		field ferrous iron = 0.5
Sulfide SM 4500	8		field pH = 6.18
	8		field ferrous iron = 0.0
	8		field pH = 5.33
	8		field ferrous iron = 0.0
			field pH = _____
			field ferrous iron = _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

Other: _____
 Description: _____

Other: _____
 Description: _____

- 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: EA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P, and U-listed wastes), Waste code(s): _____
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 TSCA Regulated: PCB = Polychlorinated biphenyls, Pb = Lead

SAMPLE RECEIPT & REVIEW FORM

ET

Client: GACC SDG/AR/COC/Work Order: 608969 608972

Received By: MVH Date Received: 01-31-2023

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

cooler 3-1
cooler 2-2
cooler 1-1

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 00 CPM/mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>BRA-P2-571, BRA-P2-661, BRA-P2-641</u> If Preservation added, Lot #: <u>1344-13 Sodium Hydroxide</u> If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 2/1/23 Page 1 of 1

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID <i>* For composites - Indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (0)	Sample Matrix (6)	Should this sample be considered:		Sample Analysis Requested (6) (Fill in the number of containers for each test)					Comments Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S1
						Yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	Metals *	Radium 226 & 228	SW-846 9315, 9320	Sulfide SM 4500	
BRA-BR6WA-125	01/24/23	1310	G	N	WG			8	✓	✓	✓	✓	field pH = 5.97
BRA-BR6WA-121	01/24/23	1450	G	N	WG			8	✓	✓	✓	✓	field ferrous iron = 0.0
BRA-BR6WA-235	01/24/23	1415	G	N	WG			8	✓	✓	✓	✓	field pH = 6.48
BRA-BR6WC-325	01/24/23	1541	G	N	WG			8	✓	✓	✓	✓	field ferrous iron = 0.0
BRA-													field pH = 5.76
													field ferrous iron = 0.0
													field ferrous iron = 0.0
													field ferrous iron = 0.0
													field ferrous iron = 0.0

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Received by (signed) _____ Date _____ Time _____

1. *Erin Trent* 1/25/23 08:29 *Erin Trent* 8:29
 2. *M. Beards* 1-25-23 1338
 3. _____

TAT Requested: Normal: Yes No Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Ti,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - For yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
 AS = Arsenic Hg= Mercury
 Ba = Barium Se= Selenium
 Cd = Cadmium Ag= Silver
 Cr = Chromium MR= Misc. RCRA metals
 Pb = Lead

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

TSCA Regulated
 PCB = Polychlorinated biphenyls

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s): _____

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns, (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPEC</u>		SDG/AR/COC/Work Order: <u>608413 608416</u>			
Received By: <u>PL</u>		Date Received: <u>1/25/23</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other			
Suspected Hazard Information		Yes	No		
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>		
		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/>		
		COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?			<input checked="" type="checkbox"/>		
		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?			<input checked="" type="checkbox"/>		
		COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?			<input checked="" type="checkbox"/>		
		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>		If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials AM Date 1/26/23 Page 1 of 1

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)					Preservative Type (6)	
						Radioactive (if yes, please supply isotopic info)	(7) Known or possible Hazards		Metals *	Radium 226 & 228	SW-846 9315, 9320	Sulfide	Comments		
BRA- PZ-68D	02/01/23	1416	G	N	WG	N	N	8	✓	✓	✓	NI	NI	SM 4500	QC Note: extra sample is required for sample specific Task Code: BRA-CCR-ASSMT-2023S1
BRA- PZ-69I	02/01/23	1247	G	N	WG	N	N	8	✓	✓	✓	NI	NI	SM 4500	field pH = 7.24 field ferrous iron = 0.0 field pH = 6.14 field ferrous iron = 0.0

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bc,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

Chain of Custody Signatures			
Relinquished By (Signed)	Date	Time	Received by (signed)
<u>T. Goble</u>	<u>2-23/0959</u>	<u>9:59</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>2/23/20</u>	<u>2:20</u>	<u>[Signature]</u>

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

KNOWN OR POSSIBLE HAZARDS	
RCRA Metals	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg= Mercury Se= Selenium Ag= Silver MIR= Misc. RCRA metals	
FL = Flammable/Ignitable CO = Corrosive RE = Reactive	
TSCA Regulated PCB = Polychlorinated biphenyls	

SAMPLE RECEIPT & REVIEW FORM

609211 | 609212

Client: **GPPC** SDG/AR/COC/Work Order: **609211 | 609212**

Received By: **Stacy Boone** Date Received: **2/2/2023**

Carrier and Tracking Number

Circle Applicable:
FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information

Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No

B) Did the client designate the samples are to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? Yes No If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: TEMP: <u>ice</u> *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR3-22</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: <u> </u> If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> (If yes, take to VOA Freezer)
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Sample ID's and containers affected: <u> </u>
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: <u> </u>
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: <u> </u>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments (Use Continuation Form if needed):

Page: _____ of _____

Project # _____ of _____

GEL Quote #: _____

COC Number ⁽¹⁾: _____

PO Number: _____

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Laboratories LLC **6088013**
Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Work Order Number: _____
Phone # 404-506-7116
Fax # _____

Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. J. Pr. 2602 ACC
Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)					Total number of containers	Should this sample be considered: (7) Known or possible hazards (8) Radioactive (if yes, please supply isotopic info)	Comments
						NI	IN	SM 4500 Sulfide	SW-846 9315, 9320	Radium 226 & 228			
BRA-BZ6WC-25I	01/26/23	1015	G	N	WG	8	✓	✓	✓	✓	✓	field pH = 6.18 field ferrous iron = 0.0	
BRA-BZ6WC-29I	01/26/23	1130	G	N	WG	8	✓	✓	✓	✓	✓	field pH = 4.30 field ferrous iron = 5.0	
BRA-BZ6WC-30I	01/26/23	1105	G	N	WG	8	✓	✓	✓	✓	✓	field pH = 6.28 field ferrous iron = 0.0	
BRA-APBCD-EB-03	01/26/23	1400 1610	G	N	WQ	8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = N/A	
BRA-APBCD-FB-02	01/26/23	1425	G	N	WQ	8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = N/A	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	1/27/23	0950	<i>[Signature]</i>	1/27/23	0950
<i>[Signature]</i>	1/27/23	213	<i>[Signature]</i>	1/27/23	213

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Ti,Fe,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	Listed Waste LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	Other OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
---	--	--	---

TSCA Regulated
PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Should this sample be considered:	Sample Analysis Requested ⁽⁵⁾	Preservative Type (6)
* For composites - indicate start and stop date/time						(7) Known or possible Hazards (if yes, please supply isotopic info)	Total number of containers	Comments
BRA-BR606-25E BRA-PZ-51I	01/26/23	1200	G	N	WG	Radioactive (if yes, please supply isotopic info)	NI Metals * EPA 6020, 6010, 7470 Total & Heavy Alk SM 2320B C, F, SO ₄ , TDS, NO ₃ EPA 300, SM 2540C	QC Note: extra sample is required for sample specific Task Code: BRA-CCR-ASSMT-2023S1 field pH = 5.44 field ferrous iron = 0.0
BRA-APBCD-FD-02	01/26/23	---	G	N	WG		NI	field pH = N/A field ferrous iron = N/A
BRA-BR6WC-47	01/26/23	1333	G	N	WG		NI	field pH = 5.65 field ferrous iron = 0.0
BRA-PZ-51D	01/26/23	0950	G	N	WG		NI	field pH = 7.20 field ferrous iron = 1.0
BRA-PZ-58I	01/26/23	1500	G	N	WG		NI	field pH = 3.93 field ferrous iron = 4.0

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	1/29/23	<i>[Signature]</i>	1/29/23	950
<i>[Signature]</i>	1/27/23	<i>[Signature]</i>	1/27/23	213

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, if no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Work Order Number: _____
 Phone # 404-506-7116
 Fax # _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: *J. Beatty* ACC
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Radiactive (If Yes, please supply isotopic info.)	Should this sample be considered:	Total number of containers	Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRA-PZ-59I	01/26/23	1317	G	N	WG		(7) Known or possible Hazards	8	NI NI Metals * Total & Etabc Alk SM 2320B EPA 300, SM 2540C CL, F, SO4, TDS, NO3 Sulfide SM 4500 Radium 226 & 228 SW-846 9315, 9320		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S1 field pH = 3.78 field ferrous iron = 6.5 field pH = 4.60 field ferrous iron = 0.05 field pH = 5.16 field ferrous iron = 0.5 field pH = 4.06 field ferrous iron = 6.0 field pH = 6.24 field ferrous iron = 4.5
BRA-PZ-60I	01/26/23	1505	6	N	WG			8			
BRA-PZ-61I	01/26/23	1410	6	N	WG			8			
BRA-PZ-65I	01/26/23	1645	6	N	WG			8			
BRA-PZ-50D	01/27/23	0840	6	N	WG			8			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	1/27/23	0950	<i>[Signature]</i>	1/27/23	950
<i>[Signature]</i>	1/27/23	2:13	<i>[Signature]</i>	1/27/23	2:13

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Fe, Mg, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a -Y- for yes the sample was field filtered or -N- for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SF=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B -3, 6010B/7470A -1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: GPOC SDG/AR/COC/Work Order: 608803, 608813 ET
 Received By: Thyasia Tatum Date Received: 1-27-23

Carrier and Tracking Number
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 B) Did the client designate the samples are to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.
 C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.
 If D or E is yes, select Hazards below.
 E) Did the RSO identify possible hazards? Yes No PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 < 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-20</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 1/31/23 Page 1 of 1

GEL Work Order Number: Phone # 404-506-7116
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bantz Ed ACC
Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (2)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments
						(7) Known or possible Hazards	Radiactive (if isotopic info)		Preservative Type (6)	Metals *	Total & Heavy Alk	SM 2320B	SM 2540C	
BRA-PZ-44	01/25/23	1325	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.13 field ferrous iron = 0.0
BRA-APBCD-FD-01	01/25/23	—	G	N	WG			8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = —
BRA-BRGWC-415	01/25/23	1440	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.82 field ferrous iron = 0.0
BRA-APBCD-EB-04	01/25/23	1630	G	N	WG			8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = —
BRA-APBCD-FB-01	01/25/23	1305	G	N	WG			8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = —

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	1/26/23	0828	<i>[Signature]</i>	1/26/23	838
<i>[Signature]</i>	1/26/23	115	<i>[Signature]</i>	1/26/23	115

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a -Y- for yes the sample was field filtered or -N- for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead biphenyls

TSCA Regulated
 PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA, 30308
 Collected By: J. Benford ACC

Phone # 404-506-7116
 Fax # _____
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radiative (If Yes, please supply isotopic info)	Total number of containers	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
BRA-BR6WC-50	01/25/23	1325	G	N	WG		8	(7) Known or possible Hazards	Metals * EPA 6020, 6010, 7470 Total & Bearb Alk SM 2320B EPA 300, SM 2540C C, P, SO4, TDS, NO3		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023SI field pH = 5.18 field ferrous iron = 0.0
BRA-BR6WC-52I	01/25/23	1510	G	N	WG		8				field pH = 6.25 field ferrous iron = 1.0
BRA-BR6WC-27I	01/25/23	1345	G	W	WG		8				field pH = 5.63 field ferrous iron = 0.0
BRA-											field pH = _____ field ferrous iron = _____
BRA-											field pH = _____ field ferrous iron = _____

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____

1. *[Signature]* 1/24/23 0826
 2. *[Signature]* 1/24/23 1113
 3. *[Signature]* 1/26/23 1145

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WL=Lachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Hg= Mercury
As = Arsenic	
Ba = Barium	
Cd = Cadmium	
Cr = Chromium	
Pb = Lead	
Se = Selenium	
Ag = Silver	
MIR = Misc. RCRA metals	
PCB = Polychlorinated biphenyls	

FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s): _____

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

608602
608609

Client: **GPCC** SDG/AR/COC/Work Order: _____
 Received By: **Stacy Boone** Date Received: **JAN 26, 2023**
 Carrier and Tracking Number: _____
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information: Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 A) Shipped as a DOT Hazardous? Hazard Class Shipped: _____ UN#: _____
 B) Did the client designate the samples are to be received as radioactive? If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 C) Did the RSO classify the samples as radioactive? COC notation or radioactive stickers on containers equal client designation.
 D) Did the client designate samples are hazardous? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM / mR/hr
 Classified as: Rad 1 Rad 2 Rad 3
 E) Did the RSO identify possible hazards? COC notation or hazard labels on containers equal client designation.
 If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: TEMP: 10 x 5 *all temperatures are recorded in Celsius
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR3-22 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected: ID's and tests affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments (Use Continuation Form if needed): _____
 PM (or PMA) review: Initials **AD** Date **1/27/23** Page **1** of **1**

Anna Johnson

From: Adrian Melendrez
Sent: Wednesday, February 1, 2023 2:18 PM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM;
NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: RE: Preservation 608969

CCing the correct team address.

From: Adrian Melendrez
Sent: Wednesday, February 1, 2023 2:16 PM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Boddiford <Team.Boddiford@gel.com>
Subject: Preservation 608969

Notifying you that these samples were preserved with sodium hydroxide upon arrival. No reply is necessary just wanted to keep you in the loop.

- BRA-PZ-57I
- BRA-PZ-66I
- BRA-PZ-64I

Thanks!

-Adrian

Adrian Melendrez
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417

Office Main: 843.556.8171 EXT 4409 | Fax: 843.766.1178

E-Mail: Adrian.Melendrez@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 24 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD
Pace Project No.: 92585977

Dear Joju Abraham:

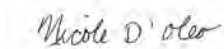
Enclosed are the analytical results for sample(s) received by the laboratory between February 03, 2022 and February 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Company

Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Brian Steele, Golder
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Pace Analytical Services Ormond Beach

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585977001	BRGWC-25I	Water	02/02/22 14:44	02/03/22 10:35
92585977002	BRGWC-30I	Water	02/02/22 12:30	02/03/22 10:35
92585977003	BRGWC-32S	Water	02/02/22 14:55	02/03/22 10:35
92585977004	BRGWC-45	Water	02/02/22 10:42	02/03/22 10:35
92585977005	BRGWC-47	Water	02/02/22 09:40	02/03/22 10:35
92585977006	BRGWC-52I	Water	02/02/22 13:34	02/03/22 10:35
92585977007	DUP-2	Water	02/02/22 00:00	02/03/22 10:35
92585977008	BRGWC-50	Water	02/03/22 11:48	02/04/22 16:06
92585977009	BRGWC-27I	Water	02/04/22 08:50	02/04/22 16:06
92585977010	BRGWC-29I	Water	02/03/22 17:00	02/04/22 16:06
92585977011	DUP-3	Water	02/03/22 00:00	02/04/22 16:06

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585977001	BRGWC-25I	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92585977002	BRGWC-30I	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92585977003	BRGWC-32S	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92585977004	BRGWC-45	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92585977005	BRGWC-47	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
92585977006	BRGWC-52I	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977007	DUP-2	EPA 6010D	KH	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585977008	BRGWC-50	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	7	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		SM 3500-Fe D#4	DMN	1	PASI-A
		SM 3500-Fe B-2011	DMN	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
EPA 353.2 Rev 2.0 1993	KDF1	1	PASI-A		
92585977009	BRGWC-27I	SM 5310B	AGS	1	PASI-O
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92585977010	BRGWC-29I	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92585977011	DUP-3	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585977001	BRGWC-25I					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	6.23	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.30	mg/L	0.040	02/15/22 18:41	
EPA 6010D	Manganese	1.4	mg/L	0.040	02/15/22 18:41	
EPA 6010D	Potassium	4.0	mg/L	0.20	02/15/22 18:41	
EPA 6010D	Sodium	15.1	mg/L	1.0	02/15/22 18:41	
EPA 6010D	Calcium	44.3	mg/L	1.0	02/15/22 18:41	
EPA 6010D	Magnesium	16.4	mg/L	0.050	02/15/22 18:41	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/15/22 19:11	
EPA 6020B	Boron	1.1	mg/L	0.040	02/15/22 19:11	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	02/15/22 19:11	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/15/22 19:11	
SM 2540C-2015	Total Dissolved Solids	283	mg/L	10.0	02/07/22 17:22	
SM 2320B	Alkalinity, Total as CaCO3	71.7	mg/L	5.0	02/10/22 15:25	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	71.7	mg/L	5.0	02/10/22 15:25	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/08/22 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	02/08/22 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	117	mg/L	3.0	02/08/22 14:32	
92585977002	BRGWC-30I					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	6.34	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	1.1	mg/L	0.040	02/15/22 18:46	
EPA 6010D	Manganese	0.80	mg/L	0.040	02/15/22 18:46	
EPA 6010D	Potassium	5.5	mg/L	0.20	02/15/22 18:46	
EPA 6010D	Sodium	27.5	mg/L	1.0	02/15/22 18:46	M1
EPA 6010D	Calcium	232	mg/L	1.0	02/15/22 18:46	M1
EPA 6010D	Magnesium	46.7	mg/L	0.050	02/15/22 18:46	M1
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/15/22 19:34	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/15/22 19:34	
EPA 6020B	Boron	1.9	mg/L	0.040	02/15/22 19:34	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/15/22 19:34	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/15/22 19:34	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/15/22 19:34	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/15/22 19:34	
SM 2540C-2015	Total Dissolved Solids	1110	mg/L	20.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	118	mg/L	5.0	02/10/22 15:29	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	02/10/22 15:29	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/08/22 02:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/08/22 02:38	
EPA 300.0 Rev 2.1 1993	Sulfate	580	mg/L	14.0	02/08/22 14:46	
92585977003	BRGWC-32S					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	5.99	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.082	mg/L	0.040	02/15/22 19:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585977003	BRGWC-32S					
EPA 6010D	Potassium	1.9	mg/L	0.20	02/15/22 19:05	
EPA 6010D	Sodium	24.6	mg/L	1.0	02/15/22 19:05	
EPA 6010D	Calcium	44.2	mg/L	1.0	02/15/22 19:05	
EPA 6010D	Magnesium	28.6	mg/L	0.050	02/15/22 19:05	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/15/22 19:40	
EPA 6020B	Boron	1.0	mg/L	0.040	02/15/22 19:40	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/15/22 19:40	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	02/15/22 19:40	
EPA 6020B	Selenium	0.21	mg/L	0.0050	02/15/22 19:40	
SM 2540C-2015	Total Dissolved Solids	443	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	31.5	mg/L	5.0	02/10/22 15:34	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	31.5	mg/L	5.0	02/10/22 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/08/22 02:52	
EPA 300.0 Rev 2.1 1993	Sulfate	210	mg/L	5.0	02/08/22 15:00	
92585977004	BRGWC-45					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	5.92	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.44	mg/L	0.040	02/15/22 19:10	
EPA 6010D	Manganese	0.27	mg/L	0.040	02/15/22 19:10	
EPA 6010D	Potassium	3.4	mg/L	0.20	02/15/22 19:10	
EPA 6010D	Sodium	14.6	mg/L	1.0	02/15/22 19:10	
EPA 6010D	Calcium	33.8	mg/L	1.0	02/15/22 19:10	
EPA 6010D	Magnesium	16.2	mg/L	0.050	02/15/22 19:10	
EPA 6020B	Barium	0.063	mg/L	0.0050	02/15/22 19:46	
EPA 6020B	Boron	0.034J	mg/L	0.040	02/15/22 19:46	
EPA 6020B	Cobalt	0.0054	mg/L	0.0050	02/15/22 19:46	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/15/22 19:46	
SM 2540C-2015	Total Dissolved Solids	276	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	39.6	mg/L	5.0	02/10/22 15:37	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	39.6	mg/L	5.0	02/10/22 15:37	
EPA 300.0 Rev 2.1 1993	Chloride	23.4	mg/L	1.0	02/08/22 03:06	
EPA 300.0 Rev 2.1 1993	Sulfate	90.1	mg/L	2.0	02/08/22 15:15	
92585977005	BRGWC-47					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	5.75	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.17	mg/L	0.040	02/15/22 19:15	BC
EPA 6010D	Manganese	0.010J	mg/L	0.040	02/15/22 19:15	
EPA 6010D	Potassium	11.5	mg/L	0.20	02/15/22 19:15	
EPA 6010D	Sodium	40.5	mg/L	1.0	02/15/22 19:15	
EPA 6010D	Magnesium	114	mg/L	0.050	02/15/22 19:15	
EPA 6010D	Calcium	320	mg/L	10.0	02/16/22 15:32	
EPA 6020B	Arsenic	0.0056	mg/L	0.0050	02/15/22 19:52	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/15/22 19:52	
EPA 6020B	Boron	0.48	mg/L	0.040	02/15/22 19:52	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	02/15/22 19:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585977005	BRGWC-47					
EPA 6020B	Lithium	0.040	mg/L	0.030	02/15/22 19:52	
SM 2540C-2015	Total Dissolved Solids	1850	mg/L	100	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	26.1	mg/L	5.0	02/10/22 15:41	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	26.1	mg/L	5.0	02/10/22 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/08/22 03:20	
EPA 300.0 Rev 2.1 1993	Sulfate	1170	mg/L	26.0	02/08/22 15:56	M1
92585977006	BRGWC-52I					
	Performed by	CUSTOME			02/03/22 12:57	
		R				
	pH	6.35	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	5.8	mg/L	0.040	02/15/22 19:29	
EPA 6010D	Manganese	0.75	mg/L	0.040	02/15/22 19:29	
EPA 6010D	Potassium	4.9	mg/L	0.20	02/15/22 19:29	
EPA 6010D	Sodium	18.4	mg/L	1.0	02/15/22 19:29	
EPA 6010D	Calcium	40.1	mg/L	1.0	02/15/22 19:29	
EPA 6010D	Magnesium	18.1	mg/L	0.050	02/15/22 19:29	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/15/22 20:10	
EPA 6020B	Boron	1.5	mg/L	0.040	02/15/22 20:10	
EPA 6020B	Lithium	0.0041J	mg/L	0.030	02/15/22 20:10	
SM 2540C-2015	Total Dissolved Solids	160	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	65.1	mg/L	5.0	02/10/22 15:44	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	65.1	mg/L	5.0	02/10/22 15:44	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/08/22 04:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	02/08/22 04:01	
EPA 300.0 Rev 2.1 1993	Sulfate	126	mg/L	3.0	02/08/22 16:38	
92585977007	DUP-2					
EPA 6010D	Calcium	224	mg/L	1.0	02/15/22 19:34	
EPA 6020B	Barium	0.032	mg/L	0.0050	02/15/22 20:16	
EPA 6020B	Boron	1.9	mg/L	0.040	02/15/22 20:16	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/15/22 20:16	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/15/22 20:16	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	02/15/22 20:16	
SM 2540C-2015	Total Dissolved Solids	1140	mg/L	20.0	02/07/22 17:39	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/08/22 04:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/08/22 04:43	
EPA 300.0 Rev 2.1 1993	Sulfate	579	mg/L	14.0	02/08/22 16:51	
92585977008	BRGWC-50					
	Performed by	CUSTOME			02/07/22 09:56	
		R				
	pH	5.20	Std. Units		02/07/22 09:56	
EPA 6010D	Manganese	83.5	mg/L	0.40	02/16/22 15:37	
EPA 6010D	Calcium	220	mg/L	10.0	02/16/22 15:37	
EPA 6010D	Magnesium	158	mg/L	0.50	02/16/22 15:37	
EPA 6010D	Hardness, Total(SM 2340B)	1200	mg/L	27.0	02/16/22 15:37	
EPA 6010D	Iron	0.15	mg/L	0.040	02/15/22 19:43	
EPA 6010D	Potassium	9.8	mg/L	0.20	02/15/22 19:43	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585977008	BRGWC-50					
EPA 6010D	Sodium	46.9	mg/L	1.0	02/15/22 19:43	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/15/22 20:58	
EPA 6020B	Beryllium	0.0071	mg/L	0.00050	02/15/22 20:58	
EPA 6020B	Boron	0.31	mg/L	0.040	02/15/22 20:58	
EPA 6020B	Cadmium	0.0085	mg/L	0.00050	02/15/22 20:58	
EPA 6020B	Cobalt	1.5	mg/L	0.025	02/17/22 15:12	
EPA 6020B	Lithium	0.038	mg/L	0.030	02/15/22 20:58	
SM 2540C-2015	Total Dissolved Solids	1850	mg/L	100	02/09/22 10:13	
SM 2320B	Alkalinity, Total as CaCO3	11.6	mg/L	5.0	02/10/22 22:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	11.6	mg/L	5.0	02/10/22 22:06	
SM 3500-Fe B-2011	Iron, Ferrous	0.16J	mg/L	0.50	02/09/22 11:34	H3,N2
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	02/10/22 22:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	02/10/22 22:50	
EPA 300.0 Rev 2.1 1993	Sulfate	1270	mg/L	25.0	02/11/22 05:19	
SM 5310B	Dissolved Organic Carbon	0.53 I	mg/L	1.0	02/10/22 20:19	
92585977009	BRGWC-271					
	Performed by	CUSTOME			02/07/22 09:56	
		R				
	pH	5.97	Std. Units		02/07/22 09:56	
EPA 6010D	Iron	0.095	mg/L	0.040	02/15/22 19:48	
EPA 6010D	Manganese	0.88	mg/L	0.040	02/15/22 19:48	
EPA 6010D	Potassium	4.9	mg/L	0.20	02/15/22 19:48	
EPA 6010D	Sodium	14.1	mg/L	1.0	02/15/22 19:48	
EPA 6010D	Calcium	61.7	mg/L	1.0	02/15/22 19:48	
EPA 6010D	Magnesium	5.5	mg/L	0.050	02/15/22 19:48	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/15/22 21:04	
EPA 6020B	Beryllium	0.000054J	mg/L	0.00050	02/15/22 21:04	
EPA 6020B	Boron	1.0	mg/L	0.040	02/15/22 21:04	
EPA 6020B	Cobalt	0.0076	mg/L	0.0050	02/15/22 21:04	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/15/22 21:04	
SM 2540C-2015	Total Dissolved Solids	301	mg/L	10.0	02/09/22 18:02	
SM 2320B	Alkalinity, Total as CaCO3	31.3	mg/L	5.0	02/10/22 21:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	02/10/22 21:36	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/10/22 23:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/10/22 23:05	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	02/11/22 05:34	
92585977010	BRGWC-291					
	Performed by	CUSTOME			02/07/22 09:57	
		R				
	pH	4.23	Std. Units		02/07/22 09:57	
EPA 6010D	Iron	29.2	mg/L	0.040	02/15/22 19:53	
EPA 6010D	Manganese	1.2	mg/L	0.040	02/15/22 19:53	
EPA 6010D	Potassium	9.0	mg/L	0.20	02/15/22 19:53	
EPA 6010D	Sodium	15.0	mg/L	1.0	02/15/22 19:53	
EPA 6010D	Calcium	58.7	mg/L	1.0	02/15/22 19:53	
EPA 6010D	Magnesium	7.3	mg/L	0.050	02/15/22 19:53	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/15/22 21:22	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977010	BRGWC-29I					
EPA 6020B	Beryllium	0.00083	mg/L	0.00050	02/15/22 21:22	
EPA 6020B	Boron	0.93	mg/L	0.040	02/15/22 21:22	
EPA 6020B	Cobalt	0.0077	mg/L	0.0050	02/15/22 21:22	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/15/22 21:22	
SM 2540C-2015	Total Dissolved Solids	419	mg/L	10.0	02/09/22 10:13	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/22 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/10/22 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	274	mg/L	6.0	02/11/22 05:48	
92585977011	DUP-3					
EPA 6010D	Iron	29.8	mg/L	0.040	02/15/22 19:58	
EPA 6010D	Manganese	1.2	mg/L	0.040	02/15/22 19:58	
EPA 6010D	Potassium	9.2	mg/L	0.20	02/15/22 19:58	
EPA 6010D	Sodium	15.2	mg/L	1.0	02/15/22 19:58	
EPA 6010D	Calcium	59.3	mg/L	1.0	02/15/22 19:58	
EPA 6010D	Magnesium	7.4	mg/L	0.050	02/15/22 19:58	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/15/22 21:28	
EPA 6020B	Beryllium	0.00081	mg/L	0.00050	02/15/22 21:28	
EPA 6020B	Boron	0.96	mg/L	0.040	02/15/22 21:28	
EPA 6020B	Cobalt	0.0072	mg/L	0.0050	02/15/22 21:28	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	02/15/22 21:28	
SM 2540C-2015	Total Dissolved Solids	435	mg/L	10.0	02/09/22 10:13	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	02/10/22 23:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/22 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	285	mg/L	6.0	02/11/22 06:03	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-25I		Lab ID: 92585977001		Collected: 02/02/22 14:44		Received: 02/03/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	6.23	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.30	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 18:41	7439-89-6	
Manganese	1.4	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 18:41	7439-96-5	
Potassium	4.0	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 18:41	7440-09-7	
Sodium	15.1	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 18:41	7440-23-5	
Calcium	44.3	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 18:41	7440-70-2	
Magnesium	16.4	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 18:41	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	0.00078	1	02/15/22 10:27	02/15/22 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:11	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:11	7440-41-7	
Boron	1.1	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:11	7440-47-3	
Cobalt	0.0027J	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:11	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:11	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	02/10/22 08:00	02/10/22 11:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	283	mg/L	10.0	10.0	1		02/07/22 17:22		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	71.7	mg/L	5.0	1.8	1		02/10/22 15:25		
Alkalinity,Bicarbonate (CaCO3)	71.7	mg/L	5.0	1.8	1		02/10/22 15:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-25I **Lab ID: 92585977001** Collected: 02/02/22 14:44 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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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		02/08/22 02:24	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		02/08/22 02:24	16984-48-8	
Sulfate	117	mg/L	3.0	1.5	3		02/08/22 14:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-301		Lab ID: 92585977002		Collected: 02/02/22 12:30		Received: 02/03/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	6.34	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.1	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 18:46	7439-89-6	
Manganese	0.80	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 18:46	7439-96-5	
Potassium	5.5	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 18:46	7440-09-7	
Sodium	27.5	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 18:46	7440-23-5	M1
Calcium	232	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 18:46	7440-70-2	M1
Magnesium	46.7	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 18:46	7439-95-4	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:34	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:34	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:34	7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:34	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:34	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:34	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:34	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	02/10/22 08:00	02/10/22 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1110	mg/L	20.0	20.0	1		02/07/22 17:23		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	118	mg/L	5.0	1.8	1		02/10/22 15:29		
Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	1.8	1		02/10/22 15:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-30I **Lab ID: 92585977002** Collected: 02/02/22 12:30 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	4.0	mg/L	1.0	0.60	1	02/08/22 02:38	16887-00-6		
Fluoride	0.10	mg/L	0.10	0.050	1	02/08/22 02:38	16984-48-8		
Sulfate	580	mg/L	14.0	7.0	14	02/08/22 14:46	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-32S		Lab ID: 92585977003		Collected: 02/02/22 14:55	Received: 02/03/22 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	5.99	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.082	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:05	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:05	7439-96-5	
Potassium	1.9	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:05	7440-09-7	
Sodium	24.6	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:05	7440-23-5	
Calcium	44.2	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:05	7440-70-2	
Magnesium	28.6	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:05	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	0.00078	1	02/15/22 10:27	02/15/22 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:40	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:40	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:40	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:40	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:40	7439-98-7	
Selenium	0.21	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 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	02/10/22 08:00	02/10/22 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	443	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	31.5	mg/L	5.0	1.8	1		02/10/22 15:34		
Alkalinity,Bicarbonate (CaCO3)	31.5	mg/L	5.0	1.8	1		02/10/22 15:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:34		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-32S **Lab ID: 92585977003** Collected: 02/02/22 14:55 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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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		02/08/22 02:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 02:52	16984-48-8	
Sulfate	210	mg/L	5.0	2.5	5		02/08/22 15:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-45		Lab ID: 92585977004		Collected: 02/02/22 10:42		Received: 02/03/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	5.92	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.44	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:10	7439-89-6	
Manganese	0.27	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:10	7439-96-5	
Potassium	3.4	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:10	7440-09-7	
Sodium	14.6	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:10	7440-23-5	
Calcium	33.8	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:10	7440-70-2	
Magnesium	16.2	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:10	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	0.00078	1	02/15/22 10:27	02/15/22 19:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:46	7440-38-2	
Barium	0.063	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:46	7440-41-7	
Boron	0.034J	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:46	7440-47-3	
Cobalt	0.0054	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:46	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:46	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	02/10/22 08:00	02/10/22 11:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	276	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	39.6	mg/L	5.0	1.8	1		02/10/22 15:37		
Alkalinity,Bicarbonate (CaCO3)	39.6	mg/L	5.0	1.8	1		02/10/22 15:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:37		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-45 **Lab ID: 92585977004** Collected: 02/02/22 10:42 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	23.4	mg/L	1.0	0.60	1		02/08/22 03:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 03:06	16984-48-8	
Sulfate	90.1	mg/L	2.0	1.0	2		02/08/22 15:15	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-47		Lab ID: 92585977005		Collected: 02/02/22 09:40		Received: 02/03/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	5.75	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.17	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:15	7439-89-6	BC
Manganese	0.010J	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:15	7439-96-5	
Potassium	11.5	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:15	7440-09-7	
Sodium	40.5	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:15	7440-23-5	
Magnesium	114	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:15	7439-95-4	
Calcium	320	mg/L	10.0	1.2	10	02/15/22 11:54	02/16/22 15:32	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	0.00078	1	02/15/22 10:27	02/15/22 19:52	7440-36-0	
Arsenic	0.0056	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:52	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:52	7440-41-7	
Boron	0.48	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:52	7440-42-8	
Cadmium	0.00015J	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:52	7439-92-1	
Lithium	0.040	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:52	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	02/10/22 08:00	02/10/22 11:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1850	mg/L	100	100	1		02/07/22 17:23		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	26.1	mg/L	5.0	1.8	1		02/10/22 15:41		
Alkalinity,Bicarbonate (CaCO3)	26.1	mg/L	5.0	1.8	1		02/10/22 15:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:41		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-47 **Lab ID: 92585977005** Collected: 02/02/22 09:40 Received: 02/03/22 10:35 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									
Chloride	4.2	mg/L	1.0	0.60	1		02/08/22 03:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 03:20	16984-48-8	
Sulfate	1170	mg/L	26.0	13.0	26		02/08/22 15:56	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-52I		Lab ID: 92585977006		Collected: 02/02/22 13:34	Received: 02/03/22 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/03/22 12:57		
pH	6.35	Std. Units			1		02/03/22 12:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	5.8	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:29	7439-89-6	
Manganese	0.75	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:29	7439-96-5	
Potassium	4.9	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:29	7440-09-7	
Sodium	18.4	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:29	7440-23-5	
Calcium	40.1	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:29	7440-70-2	
Magnesium	18.1	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:29	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	0.00078	1	02/15/22 10:27	02/15/22 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:10	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:10	7440-41-7	
Boron	1.5	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 20:10	7439-92-1	
Lithium	0.0041J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 20:10	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	02/14/22 15:15	02/15/22 09:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	160	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	65.1	mg/L	5.0	1.8	1		02/10/22 15:44		
Alkalinity,Bicarbonate (CaCO3)	65.1	mg/L	5.0	1.8	1		02/10/22 15:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:44		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-52I **Lab ID: 92585977006** Collected: 02/02/22 13:34 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		02/08/22 04:01	16887-00-6	
Fluoride	0.098J	mg/L	0.10	0.050	1		02/08/22 04:01	16984-48-8	
Sulfate	126	mg/L	3.0	1.5	3		02/08/22 16:38	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: DUP-2		Lab ID: 92585977007		Collected: 02/02/22 00:00	Received: 02/03/22 10:35	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	224	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:34	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	0.00078	1	02/15/22 10:27	02/15/22 20:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:16	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:16	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:16	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 20:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 20:16	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:16	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 20:16	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	02/14/22 15:15	02/15/22 09:37	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	1140	mg/L	20.0	20.0	1		02/07/22 17:39		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.1	mg/L	1.0	0.60	1		02/08/22 04:43	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/08/22 04:43	16984-48-8	
Sulfate	579	mg/L	14.0	7.0	14		02/08/22 16:51	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-50		Lab ID: 92585977008		Collected: 02/03/22 11:48		Received: 02/04/22 16:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/07/22 09:56		
pH	5.20	Std. Units			1		02/07/22 09:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Manganese	83.5	mg/L	0.40	0.043	10	02/15/22 11:54	02/16/22 15:37	7439-96-5	
Calcium	220	mg/L	10.0	1.2	10	02/15/22 11:54	02/16/22 15:37	7440-70-2	
Magnesium	158	mg/L	0.50	0.12	10	02/15/22 11:54	02/16/22 15:37	7439-95-4	
Hardness, Total(SM 2340B)	1200	mg/L	27.0	3.5	10	02/15/22 11:54	02/16/22 15:37		
Iron	0.15	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:43	7439-89-6	
Potassium	9.8	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:43	7440-09-7	
Sodium	46.9	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:43	7440-23-5	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 20:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:58	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:58	7440-39-3	
Beryllium	0.0071	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:58	7440-41-7	
Boron	0.31	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:58	7440-42-8	
Cadmium	0.0085	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:58	7440-47-3	
Cobalt	1.5	mg/L	0.025	0.0020	5	02/15/22 10:27	02/17/22 15:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/16/22 20:27	7439-92-1	
Lithium	0.038	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/16/22 20:27	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	02/14/22 15:15	02/15/22 09:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1850	mg/L	100	100	1		02/09/22 10:13		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	11.6	mg/L	5.0	1.8	1		02/10/22 22:06		
Alkalinity,Bicarbonate (CaCO3)	11.6	mg/L	5.0	1.8	1		02/10/22 22:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:06		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-50 Lab ID: 92585977008 Collected: 02/03/22 11:48 Received: 02/04/22 16:06 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferric (Calculation)									
Analytical Method: SM 3500-Fe D#4 Pace Analytical Services - Asheville									
Iron, Ferric	ND	mg/L	0.50	0.25	1		02/18/22 12:06	20074-52-6	N2
Iron, Ferrous									
Analytical Method: SM 3500-Fe B-2011 Pace Analytical Services - Asheville									
Iron, Ferrous	0.16J	mg/L	0.50	0.040	1		02/09/22 11:34	15438-31-0	H3,N2
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		02/09/22 03:14	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.4	mg/L	1.0	0.60	1		02/10/22 22:50	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.050	1		02/10/22 22:50	16984-48-8	
Sulfate	1270	mg/L	25.0	12.5	25		02/11/22 05:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville									
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		02/18/22 09:48		
5310B Dissolved Organic Carbon									
Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach									
Dissolved Organic Carbon	0.53 I	mg/L	1.0	0.50	1		02/10/22 20:19		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Sample Project No.: 92585977

Sample: BRGWC-271		Lab ID: 92585977009		Collected: 02/04/22 08:50		Received: 02/04/22 16:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/07/22 09:56		
pH	5.97	Std. Units			1		02/07/22 09:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.095	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:48	7439-89-6	
Manganese	0.88	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:48	7439-96-5	
Potassium	4.9	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:48	7440-09-7	
Sodium	14.1	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:48	7440-23-5	
Calcium	61.7	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:48	7440-70-2	
Magnesium	5.5	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:48	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	0.00078	1	02/15/22 10:27	02/15/22 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:04	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:04	7440-39-3	
Beryllium	0.000054J	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:04	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:04	7440-47-3	
Cobalt	0.0076	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:04	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:04	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	02/14/22 15:15	02/15/22 09:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	301	mg/L	10.0	10.0	1		02/09/22 18:02		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	31.3	mg/L	5.0	1.8	1		02/10/22 21:36		
Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	1.8	1		02/10/22 21:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 21:36		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: BRGWC-271									
Lab ID: 92585977009									
Collected: 02/04/22 08:50									
Received: 02/04/22 16:06									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.6	mg/L	1.0	0.60	1		02/10/22 23:05	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/10/22 23:05	16984-48-8	
Sulfate	172	mg/L	4.0	2.0	4		02/11/22 05:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-291		Lab ID: 92585977010		Collected: 02/03/22 17:00		Received: 02/04/22 16:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/07/22 09:57		
pH	4.23	Std. Units			1		02/07/22 09:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	29.2	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:53	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:53	7439-96-5	
Potassium	9.0	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:53	7440-09-7	
Sodium	15.0	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:53	7440-23-5	
Calcium	58.7	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:53	7440-70-2	
Magnesium	7.3	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:53	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	0.00078	1	02/15/22 10:27	02/15/22 21:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/16/22 20:33	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:22	7440-39-3	
Beryllium	0.00083	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:22	7440-41-7	
Boron	0.93	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:22	7440-47-3	
Cobalt	0.0077	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:22	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:22	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	02/14/22 15:15	02/15/22 09:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	419	mg/L	10.0	10.0	1		02/09/22 10:13		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/10/22 22:11		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: BRGWC-29I									
Lab ID: 92585977010									
Collected: 02/03/22 17:00									
Received: 02/04/22 16:06									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		02/10/22 23:20	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/10/22 23:20	16984-48-8	
Sulfate	274	mg/L	6.0	3.0	6		02/11/22 05:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: DUP-3		Lab ID: 92585977011		Collected: 02/03/22 00:00	Received: 02/04/22 16:06	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	29.8	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:58	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:58	7439-96-5	
Potassium	9.2	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:58	7440-09-7	
Sodium	15.2	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:58	7440-23-5	
Calcium	59.3	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:58	7440-70-2	
Magnesium	7.4	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:58	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	0.00078	1	02/15/22 10:27	02/15/22 21:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/16/22 20:39	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:28	7440-39-3	
Beryllium	0.00081	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:28	7440-41-7	
Boron	0.96	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:28	7440-47-3	
Cobalt	0.0072	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:28	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:28	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	02/14/22 15:15	02/15/22 09:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	435	mg/L	10.0	10.0	1		02/09/22 10:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		02/10/22 23:35	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		02/10/22 23:35	16984-48-8	
Sulfate	285	mg/L	6.0	3.0	6		02/11/22 06:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678354 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3549970 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/15/22 18:32	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	02/15/22 18:32	
Iron	mg/L	ND	0.040	0.025	02/15/22 18:32	
Magnesium	mg/L	ND	0.050	0.012	02/15/22 18:32	
Manganese	mg/L	ND	0.040	0.0043	02/15/22 18:32	
Potassium	mg/L	ND	0.20	0.15	02/15/22 18:32	
Sodium	mg/L	ND	1.0	0.58	02/15/22 18:32	

LABORATORY CONTROL SAMPLE: 3549971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Hardness, Total(SM 2340B)	mg/L	6.6	6.7	101	80-120	
Iron	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.95	95	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549972 3549973

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result								
Calcium	mg/L	232	1	1	237	230	468	-240	75-125	3	20	M1	
Hardness, Total(SM 2340B)	mg/L	772	6.6	6.6	793	770	320	-25	75-125	3	20		
Iron	mg/L	1.1	1	1	2.2	2.1	110	103	75-125	4	20		
Magnesium	mg/L	46.7	1	1	49.0	47.8	231	106	75-125	3	20	M1	
Manganese	mg/L	0.80	1	1	1.8	1.8	102	98	75-125	2	20		
Potassium	mg/L	5.5	1	1	6.6	6.5	111	97	75-125	2	20		
Sodium	mg/L	27.5	1	1	29.1	28.2	157	72	75-125	3	20	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678313 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3549798 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/15/22 18:59	
Arsenic	mg/L	ND	0.0050	0.0011	02/15/22 18:59	
Barium	mg/L	ND	0.0050	0.00067	02/15/22 18:59	
Beryllium	mg/L	ND	0.00050	0.000054	02/15/22 18:59	
Boron	mg/L	ND	0.040	0.0086	02/15/22 18:59	
Cadmium	mg/L	ND	0.00050	0.00011	02/15/22 18:59	
Chromium	mg/L	ND	0.0050	0.0011	02/15/22 18:59	
Cobalt	mg/L	ND	0.0050	0.00039	02/15/22 18:59	
Lead	mg/L	ND	0.0010	0.00089	02/15/22 18:59	
Lithium	mg/L	ND	0.030	0.00073	02/15/22 18:59	
Molybdenum	mg/L	ND	0.010	0.00074	02/15/22 18:59	
Selenium	mg/L	ND	0.0050	0.0014	02/15/22 18:59	
Thallium	mg/L	ND	0.0010	0.00018	02/15/22 18:59	

LABORATORY CONTROL SAMPLE: 3549799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.11	109	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.11	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549800 3549801

Parameter	Units	92585977001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	113	107	75-125	6	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Parameter	Units	3549800		3549801		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92585977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	105	99	75-125	6	20		
Barium	mg/L	0.023	0.1	0.1	0.14	0.13	121	103	75-125	14	20		
Beryllium	mg/L	ND	0.1	0.1	0.097	0.092	97	92	75-125	5	20		
Boron	mg/L	1.1	1	1	2.2	2.1	106	98	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.098	105	98	75-125	7	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	0.0027J	0.1	0.1	0.10	0.096	102	93	75-125	8	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20		
Lithium	mg/L	ND	0.1	0.1	0.098	0.093	98	93	75-125	5	20		
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	109	104	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.097	104	96	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

QC Batch:	677192	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005

METHOD BLANK: 3544417 Matrix: Water

Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/10/22 10:43	

LABORATORY CONTROL SAMPLE: 3544418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544419 3544420

Parameter	Units	3544419		3544420		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0020	0.0020	78	80	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678089 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3548804 Matrix: Water
Associated Lab Samples: 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/22 09:19	

LABORATORY CONTROL SAMPLE: 3548805

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: 3548806 3548807

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92585977006	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	101	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

QC Batch: 676439 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: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

METHOD BLANK: 3540519 Matrix: Water
 Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 17:19	

LABORATORY CONTROL SAMPLE: 3540520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3540521

Parameter	Units	92585555019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	180	181	1	25	

SAMPLE DUPLICATE: 3540522

Parameter	Units	92585920011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	96.0	94.0	2	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676886 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: 92585977008, 92585977010, 92585977011

METHOD BLANK: 3542886 Matrix: Water
Associated Lab Samples: 92585977008, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/09/22 10:12	

LABORATORY CONTROL SAMPLE: 3542887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3542888

Parameter	Units	92585920029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	538	574	6	25	

SAMPLE DUPLICATE: 3542889

Parameter	Units	92585979010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1350	2	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676887	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: 92585977009

METHOD BLANK: 3542890 Matrix: Water

Associated Lab Samples: 92585977009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/09/22 18:00	

LABORATORY CONTROL SAMPLE: 3542891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3542892

Parameter	Units	92585561016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 3542893

Parameter	Units	92586685001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1990	1860	7	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

QC Batch: 798120 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006

METHOD BLANK: 4240836 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/10/22 14:25	

LABORATORY CONTROL SAMPLE & LCSD: 4240837 4240838

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	40.3	40.3	101	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240839 4240840

Parameter	Units	92585979009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	3.2J	40	40	45.9	45.7	107	106	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240841 4240842

Parameter	Units	10596592002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	16.2	40	40	58.1	58.3	105	105	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

QC Batch: 798366

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585977008, 92585977009, 92585977010

METHOD BLANK: 4241914

Matrix: Water

Associated Lab Samples: 92585977008, 92585977009, 92585977010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 19:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 19:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 19:52	

LABORATORY CONTROL SAMPLE & LCSD: 4241915

4241916

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.9	42.2	105	105	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4241917

4241918

Parameter	Units	10597082001 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	23.0	40	40	62.8	63.0	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4241919

4241920

Parameter	Units	92586436012 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	76.7	40	40	116	116	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676994	Analysis Method: SM 3500-Fe B-2011
QC Batch Method: SM 3500-Fe B-2011	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92585977008

METHOD BLANK: 3543126 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	0.040	02/09/22 11:19	N2

LABORATORY CONTROL SAMPLE: 3543127

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: 3543128

Parameter	Units	92584808011 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	0.22J		10	H3,N2

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676918 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: 92585977008

METHOD BLANK: 3542979 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	02/09/22 03:08	

LABORATORY CONTROL SAMPLE: 3542980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3542981 3542982

Parameter	Units	92586721004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Sulfide	mg/L	ND	0.5	0.5	0.48	0.48	95	95	80-120	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3542983 3542984

Parameter	Units	92586721001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	99	103	80-120	3	10		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch:	676560	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

METHOD BLANK: 3541375 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 23:37	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 23:37	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 23:37	

LABORATORY CONTROL SAMPLE: 3541376

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	2.4	97	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541377 3541378

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586448001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.0	50	50	64.1	64.0	104	104	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	97	98	90-110	0	10		
Sulfate	mg/L	7.4	50	50	59.4	59.5	104	104	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541379 3541380

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585977005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.2	50	50	57.0	57.1	106	106	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	2	10		
Sulfate	mg/L	1170	50	50	1160	1150	-14	-27	90-110	1	10 M1		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 677218 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3544578 Matrix: Water
Associated Lab Samples: 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/22 15:27	
Fluoride	mg/L	ND	0.10	0.050	02/10/22 15:27	
Sulfate	mg/L	ND	1.0	0.50	02/10/22 15:27	

LABORATORY CONTROL SAMPLE: 3544579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.6	107	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544580 3544581

Parameter	Units	92586778001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	61.7	50	50	110	110	96	97	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.1	3.1	120	121	90-110	1	10	M1	
Sulfate	mg/L	52.4	50	50	103	103	101	101	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544582 3544583

Parameter	Units	92585920032		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.5	50	50	66.0	66.0	117	117	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.9	113	114	90-110	1	10	M1	
Sulfate	mg/L	65.0	50	50	114	114	98	97	90-110	0	10		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92585977

QC Batch: 678945

Analysis Method: EPA 353.2 Rev 2.0 1993

QC Batch Method: EPA 353.2 Rev 2.0 1993

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92585977008

METHOD BLANK: 3552861

Matrix: Water

Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	02/18/22 09:25	

LABORATORY CONTROL SAMPLE: 3552862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552863 3552864

Parameter	Units	92585013023		3552864		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	91	90	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552865 3552866

Parameter	Units	92585013024		3552866		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	0.16	2.5	2.5	2.6	2.5	96	95	90-110	1	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 799039	Analysis Method: SM 5310B
QC Batch Method: SM 5310B	Analysis Description: 5310B Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 92585977008

METHOD BLANK: 4387547 Matrix: Water

Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.50	02/10/22 17:39	

LABORATORY CONTROL SAMPLE: 4387548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	20	18.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4387551 4387552

Parameter	Units	92585979009		4387551		4387552		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Dissolved Organic Carbon	mg/L	0.57	20	20	20	17.8	18.9	86	92	80-120	6	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4387553 4387554

Parameter	Units	92585464001		4387553		4387554		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Dissolved Organic Carbon	mg/L	1.4	20	20	20	19.1	19.2	88	89	80-120	0	20

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QUALIFIERS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

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

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585977001	BRGWC-25I				
92585977002	BRGWC-30I				
92585977003	BRGWC-32S				
92585977004	BRGWC-45				
92585977005	BRGWC-47				
92585977006	BRGWC-52I				
92585977008	BRGWC-50				
92585977009	BRGWC-27I				
92585977010	BRGWC-29I				
92585977011	BRGWC-29I				
92585977001	BRGWC-25I	EPA 3010A	678354	EPA 6010D	678446
92585977002	BRGWC-30I	EPA 3010A	678354	EPA 6010D	678446
92585977003	BRGWC-32S	EPA 3010A	678354	EPA 6010D	678446
92585977004	BRGWC-45	EPA 3010A	678354	EPA 6010D	678446
92585977005	BRGWC-47	EPA 3010A	678354	EPA 6010D	678446
92585977006	BRGWC-52I	EPA 3010A	678354	EPA 6010D	678446
92585977007	DUP-2	EPA 3010A	678354	EPA 6010D	678446
92585977008	BRGWC-50	EPA 3010A	678354	EPA 6010D	678446
92585977009	BRGWC-27I	EPA 3010A	678354	EPA 6010D	678446
92585977010	BRGWC-29I	EPA 3010A	678354	EPA 6010D	678446
92585977011	DUP-3	EPA 3010A	678354	EPA 6010D	678446
92585977001	BRGWC-25I	EPA 3005A	678313	EPA 6020B	678442
92585977002	BRGWC-30I	EPA 3005A	678313	EPA 6020B	678442
92585977003	BRGWC-32S	EPA 3005A	678313	EPA 6020B	678442
92585977004	BRGWC-45	EPA 3005A	678313	EPA 6020B	678442
92585977005	BRGWC-47	EPA 3005A	678313	EPA 6020B	678442
92585977006	BRGWC-52I	EPA 3005A	678313	EPA 6020B	678442
92585977007	DUP-2	EPA 3005A	678313	EPA 6020B	678442
92585977008	BRGWC-50	EPA 3005A	678313	EPA 6020B	678442
92585977009	BRGWC-27I	EPA 3005A	678313	EPA 6020B	678442
92585977010	BRGWC-29I	EPA 3005A	678313	EPA 6020B	678442
92585977011	DUP-3	EPA 3005A	678313	EPA 6020B	678442
92585977001	BRGWC-25I	EPA 7470A	677192	EPA 7470A	677322
92585977002	BRGWC-30I	EPA 7470A	677192	EPA 7470A	677322
92585977003	BRGWC-32S	EPA 7470A	677192	EPA 7470A	677322
92585977004	BRGWC-45	EPA 7470A	677192	EPA 7470A	677322
92585977005	BRGWC-47	EPA 7470A	677192	EPA 7470A	677322
92585977006	BRGWC-52I	EPA 7470A	678089	EPA 7470A	678299
92585977007	DUP-2	EPA 7470A	678089	EPA 7470A	678299
92585977008	BRGWC-50	EPA 7470A	678089	EPA 7470A	678299
92585977009	BRGWC-27I	EPA 7470A	678089	EPA 7470A	678299
92585977010	BRGWC-29I	EPA 7470A	678089	EPA 7470A	678299
92585977011	DUP-3	EPA 7470A	678089	EPA 7470A	678299
92585977001	BRGWC-25I	SM 2540C-2015	676439		
92585977002	BRGWC-30I	SM 2540C-2015	676439		
92585977003	BRGWC-32S	SM 2540C-2015	676439		
92585977004	BRGWC-45	SM 2540C-2015	676439		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585977005	BRGWC-47	SM 2540C-2015	676439		
92585977006	BRGWC-52I	SM 2540C-2015	676439		
92585977007	DUP-2	SM 2540C-2015	676439		
92585977008	BRGWC-50	SM 2540C-2015	676886		
92585977009	BRGWC-27I	SM 2540C-2015	676887		
92585977010	BRGWC-29I	SM 2540C-2015	676886		
92585977011	DUP-3	SM 2540C-2015	676886		
92585977001	BRGWC-25I	SM 2320B	798120		
92585977002	BRGWC-30I	SM 2320B	798120		
92585977003	BRGWC-32S	SM 2320B	798120		
92585977004	BRGWC-45	SM 2320B	798120		
92585977005	BRGWC-47	SM 2320B	798120		
92585977006	BRGWC-52I	SM 2320B	798120		
92585977008	BRGWC-50	SM 2320B	798366		
92585977009	BRGWC-27I	SM 2320B	798366		
92585977010	BRGWC-29I	SM 2320B	798366		
92585977008	BRGWC-50	SM 3500-Fe D#4	679361		
92585977008	BRGWC-50	SM 3500-Fe B-2011	676994		
92585977008	BRGWC-50	SM 4500-S2D-2011	676918		
92585977001	BRGWC-25I	EPA 300.0 Rev 2.1 1993	676560		
92585977002	BRGWC-30I	EPA 300.0 Rev 2.1 1993	676560		
92585977003	BRGWC-32S	EPA 300.0 Rev 2.1 1993	676560		
92585977004	BRGWC-45	EPA 300.0 Rev 2.1 1993	676560		
92585977005	BRGWC-47	EPA 300.0 Rev 2.1 1993	676560		
92585977006	BRGWC-52I	EPA 300.0 Rev 2.1 1993	676560		
92585977007	DUP-2	EPA 300.0 Rev 2.1 1993	676560		
92585977008	BRGWC-50	EPA 300.0 Rev 2.1 1993	677218		
92585977009	BRGWC-27I	EPA 300.0 Rev 2.1 1993	677218		
92585977010	BRGWC-29I	EPA 300.0 Rev 2.1 1993	677218		
92585977011	DUP-3	EPA 300.0 Rev 2.1 1993	677218		
92585977008	BRGWC-50	EPA 353.2 Rev 2.0 1993	678945		
92585977008	BRGWC-50	SM 5310B	799039		

REPORT OF LABORATORY ANALYSIS

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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# : 92585977**



Courier:
 Commercial
 Fed Ex
 Pace
 UPS
 USPS
 Other: _____
 Client

Custody Seal Present? Yes No **Seals Intact?** Yes No

Date/Initials Person Examining Contents: CP 2/13/19

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer:
 IR Gun ID: 214
 Wet Blue None

Yes No N/A

Cooler Temp: 26 **Correction Factor:** +0.1
 Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 26.1

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.

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:** _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Section A Requested Client Information: Georgia Power - Coal Combustion Residuals
 1100 Atlanta Avenue, Rd
 Atlanta, GA 31061
 Phone: (404) 506-7239
 Fax: (404) 506-7239
 Email: jlabraham@southemco.com

Section B Required Project Information: Report To: Julie Abraham
 Copy To: Collier
 Project Name: Plant Branch AP-SCD
 Project #: 186625431
 State / Location: GA

Section C Invoice Information: Attention: scanproctor@southemco.com
 Company Name: scanproctor@southemco.com
 Address: Plant Branch AP-SCD
 Project Manager: Kevin Henning
 Page Profile #:

ITEM #	MATRIX	DATE	TIME	SAMPLE TYPE (G>GRAB (C=COMP)	DATE	TIME	# OF CONTAINERS	Preservatives						Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	pH
								H2SO4	HNO3 + Ice	HC	NaOH + Zn Acetate	Na2S2O3	Methanol		Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Fe, Mn, K, Na, Mg	Alkalinity (total, carbonate, bicarbonate)		
1	BRGWC-251	2/2/2022	14:44	G	2/2/2022	14:44	6	3	3	3	3	3	3	X	X	X	X	X	X	X	X	pH = 6.23
2	BRGWC-320	2/2/2022	12:30	G	2/2/2022	12:30	6	3	3	3	3	3	3	X	X	X	X	X	X	X	X	pH = 6.34
3	BRGWC-323	2/2/2022	14:55	G	2/2/2022	14:55	6	3	3	3	3	3	3	X	X	X	X	X	X	X	X	pH = 5.99
4	BRGWC-45	2/2/2022	10:42	G	2/2/2022	10:42	6	3	3	3	3	3	3	X	X	X	X	X	X	X	X	pH = 5.92
5	BRGWC-47	2/2/2022	9:40	G	2/2/2022	9:40	6	3	3	3	3	3	3	X	X	X	X	X	X	X	X	pH = 5.75
6	BRGWC-521	2/2/2022	13:34	G	2/2/2022	13:34	6	3	5	5	5	5	5	X	X	X	X	X	X	X	X	pH = 6.35
7	Dup-2	2/2/2022		G	2/2/2022		5	2	3	3	3	3	3	X	X	X	X	X	X	X	X	
8																						
9																						
10																						
11																						
12																						

REQUISITIONED BY / AFFILIATION: J... Sample
 DATE: 2/3/22
 TIME: 8:40
 ACCEPTED BY / AFFILIATION: J... Sample
 DATE: 2/3/22
 TIME: 8:40

JUDE WAGNER / J...
 DATE Signed: 2/3/22

Page: 1 of 1



Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92585977

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

PM: NMG Due Date: 02/17/22
 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 2/17/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.3 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): 3.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Client Information:
Company: Georgia Power - Coal Combustion Residuals
Address: 1100 Mariettaville Rd
City: Marietta, GA 30061
Phone: (404) 836-7239
Requested Due Date: 10 Day TAT

Section B
Required Project Information:
Report To: Jinyu Asanhan
Copy To: Goddar
Purchase Order #: Plant Branch AP-BCD
Project Name: Plant Branch AP-BCD
Project #: 166825421

Section C
Invoice Information:
Attention: sashiro@ge.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Kevin Fleming
Pace Profile #:

Section D
Requested Analytic: Filtered (Y/N)
Residual Chlorine (Y/N)
Requested Analytic: Filtered (Y/N)
Residual Chlorine (Y/N)
GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Requested Analytic: Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
1	BRGWC-50	G	2/3/2022	11:48		12	4	1	3	3	1				
2	BRGWC-271	G	2/4/2022	8:50		8	3	3	3	3					
3	BRGWC-281	G	2/3/2022	17:00		6	3	3	3	3					
4	DUP-3	G	2/3/2022			5	2	3	3	3					
5															
6															
7															
8															
9															
10															
11															
12															

ADDITIONAL COMMENTS
REQUISITIONED BY / AFFILIATION: Jinyu Asanhan / Sample
DATE: 2/4/22
TIME: 16:06
ACCEPTED BY / AFFILIATION: Charles Foster / SPN
DATE: 2/4/22
TIME: 16:06

DATE SIGNED: 2/4/22
JUBE MAVERICK / SPN

Temp in C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD
Pace Project No.: 92563226

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2021 and September 29, 2021. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92563226001	BRGWC-45	Water	09/23/21 12:15	09/23/21 17:10
92563226002	BRGWC-47	Water	09/23/21 13:35	09/23/21 17:10
92563226003	BRGWC-50	Water	09/27/21 13:05	09/28/21 10:18
92563226004	DUP-2	Water	09/27/21 00:00	09/28/21 10:18
92563226005	BRGWC-25I	Water	09/28/21 11:26	09/29/21 11:57
92563226006	BRGWC-27I	Water	09/28/21 14:30	09/29/21 11:57
92563226007	BRGWC-29I	Water	09/28/21 12:51	09/29/21 11:57
92563226008	BRGWC-30I	Water	09/28/21 16:30	09/29/21 11:57
92563226009	BRGWC-32S	Water	09/28/21 16:40	09/29/21 11:57
92563226010	EB-2	Water	09/28/21 14:50	09/29/21 11:57
92563226011	FB-2	Water	09/28/21 13:15	09/29/21 11:57
92563226012	DUP-3	Water	09/28/21 00:00	09/29/21 11:57
92563226013	BRGWC-52I	Water	09/28/21 16:16	09/29/21 11:57
92563226014	FB-3	Water	09/28/21 16:15	09/29/21 11:57
92563226015	EB-3	Water	09/28/21 16:40	09/29/21 11:57

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563226001	BRGWC-45	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226002	BRGWC-47	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226003	BRGWC-50	EPA 6010D	DRB	7
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563226004	DUP-2	EPA 6010D	DRB	7
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563226005	BRGWC-25I	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226006	BRGWC-27I	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226007	BRGWC-29I	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563226008	BRGWC-30I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92563226009	BRGWC-32S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92563226010	EB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92563226011	FB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92563226012	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92563226013	BRGWC-52I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
92563226014	FB-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
		EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563226015	EB-3	SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563226001	BRGWC-45					
	Performed by	CUSTOMER			09/24/21 10:45	
	pH	5.95	Std. Units		09/24/21 10:45	
EPA 6010D	Calcium	32.0	mg/L	1.0	10/06/21 18:27	M1
EPA 6020B	Barium	0.064	mg/L	0.0050	10/08/21 17:17	
EPA 6020B	Boron	0.029J	mg/L	0.040	10/08/21 17:17	
EPA 6020B	Cobalt	0.0049J	mg/L	0.0050	10/08/21 17:17	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	10/08/21 17:17	
SM 2540C-2011	Total Dissolved Solids	277	mg/L	10.0	09/30/21 18:57	
EPA 300.0 Rev 2.1 1993	Chloride	29.3	mg/L	1.0	09/27/21 08:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/27/21 08:04	
EPA 300.0 Rev 2.1 1993	Sulfate	97.5	mg/L	2.0	09/27/21 15:33	
92563226002	BRGWC-47					
	Performed by	CUSTOMER			09/24/21 10:46	
	pH	5.74	Std. Units		09/24/21 10:46	
EPA 6010D	Calcium	336	mg/L	10.0	10/07/21 16:32	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	10/08/21 17:22	
EPA 6020B	Barium	0.031	mg/L	0.0050	10/08/21 17:22	
EPA 6020B	Boron	0.47	mg/L	0.040	10/08/21 17:22	
EPA 6020B	Lithium	0.042	mg/L	0.030	10/08/21 17:22	
SM 2540C-2011	Total Dissolved Solids	1770	mg/L	100	09/30/21 18:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/27/21 08:19	
EPA 300.0 Rev 2.1 1993	Sulfate	1240	mg/L	27.0	09/27/21 15:48	
92563226003	BRGWC-50					
	Performed by	CUSTOMER			09/28/21 17:32	
	pH	5.05	Std. Units		09/28/21 17:32	
EPA 6010D	Manganese	78.0	mg/L	0.40	10/07/21 16:37	
EPA 6010D	Iron	0.15	mg/L	0.040	10/06/21 18:51	
EPA 6010D	Potassium	9.7	mg/L	0.20	10/06/21 18:51	
EPA 6010D	Sodium	46.3	mg/L	1.0	10/06/21 18:51	
EPA 6010D	Calcium	196	mg/L	1.0	10/06/21 18:51	
EPA 6010D	Magnesium	136	mg/L	0.050	10/06/21 18:51	
EPA 6010D	Hardness, Total(SM 2340B)	1050	mg/L	2.7	10/06/21 18:51	
EPA 6020B	Barium	0.017	mg/L	0.0050	10/08/21 17:45	
EPA 6020B	Beryllium	0.0060	mg/L	0.00050	10/08/21 17:45	
EPA 6020B	Boron	0.32	mg/L	0.040	10/08/21 17:45	
EPA 6020B	Cadmium	0.0095	mg/L	0.00050	10/08/21 17:45	
EPA 6020B	Cobalt	1.3	mg/L	0.050	10/11/21 14:39	
EPA 6020B	Lithium	0.038	mg/L	0.030	10/08/21 17:45	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 17:45	
SM 2540C-2011	Total Dissolved Solids	1800	mg/L	100	09/30/21 19:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	11.2	mg/L	5.0	10/07/21 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	11.2	mg/L	5.0	10/07/21 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	16.2	mg/L	1.0	09/30/21 16:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	09/30/21 16:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563226003	BRGWC-50					
EPA 300.0 Rev 2.1 1993	Sulfate	1180	mg/L	26.0	10/01/21 04:31	
92563226004	DUP-2					
EPA 6010D	Manganese	76.2	mg/L	0.40	10/07/21 16:41	
EPA 6010D	Iron	0.14	mg/L	0.040	10/06/21 18:56	
EPA 6010D	Potassium	9.4	mg/L	0.20	10/06/21 18:56	
EPA 6010D	Sodium	45.2	mg/L	1.0	10/06/21 18:56	
EPA 6010D	Calcium	191	mg/L	1.0	10/06/21 18:56	
EPA 6010D	Magnesium	133	mg/L	0.050	10/06/21 18:56	
EPA 6010D	Hardness, Total(SM 2340B)	1020	mg/L	2.7	10/06/21 18:56	
EPA 6020B	Barium	0.018	mg/L	0.0050	10/08/21 17:51	
EPA 6020B	Beryllium	0.0058	mg/L	0.00050	10/08/21 17:51	
EPA 6020B	Boron	0.32	mg/L	0.040	10/08/21 17:51	
EPA 6020B	Cadmium	0.0099	mg/L	0.00050	10/08/21 17:51	
EPA 6020B	Cobalt	1.3	mg/L	0.050	10/11/21 14:45	
EPA 6020B	Lithium	0.039	mg/L	0.030	10/08/21 17:51	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 17:51	
SM 2540C-2011	Total Dissolved Solids	1840	mg/L	100	09/30/21 19:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.3	mg/L	5.0	10/07/21 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.3	mg/L	5.0	10/07/21 19:20	
EPA 300.0 Rev 2.1 1993	Chloride	16.2	mg/L	1.0	09/30/21 16:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.46	mg/L	0.10	09/30/21 16:36	
EPA 300.0 Rev 2.1 1993	Sulfate	1170	mg/L	26.0	10/01/21 04:47	M1
92563226005	BRGWC-25I					
	Performed by	CUSTOME			09/29/21 13:17	
		R				
	pH	5.97	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	38.4	mg/L	1.0	10/06/21 19:10	
EPA 6020B	Barium	0.023	mg/L	0.0050	10/08/21 17:57	
EPA 6020B	Boron	1.1	mg/L	0.040	10/08/21 17:57	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	10/08/21 17:57	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	10/08/21 17:57	
SM 2540C-2011	Total Dissolved Solids	270	mg/L	10.0	10/03/21 11:39	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	09/30/21 22:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/30/21 22:10	
EPA 300.0 Rev 2.1 1993	Sulfate	112	mg/L	3.0	10/01/21 08:27	
92563226006	BRGWC-27I					
	Performed by	CUSTOME			09/29/21 13:17	
		R				
	pH	5.82	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	50.4	mg/L	1.0	10/06/21 19:15	
EPA 6020B	Barium	0.013	mg/L	0.0050	10/08/21 18:18	
EPA 6020B	Boron	0.95	mg/L	0.040	10/08/21 18:18	
EPA 6020B	Cobalt	0.0047J	mg/L	0.0050	10/08/21 18:18	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	10/08/21 18:18	
SM 2540C-2011	Total Dissolved Solids	262	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	09/30/21 22:26	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563226006	BRGWC-27I					
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/30/21 22:26	
EPA 300.0 Rev 2.1 1993	Sulfate	137	mg/L	3.0	10/01/21 08:42	
92563226007	BRGWC-29I					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	4.23	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	59.5	mg/L	1.0	10/06/21 19:20	
EPA 6020B	Barium	0.017	mg/L	0.0050	10/08/21 18:24	
EPA 6020B	Beryllium	0.00079	mg/L	0.00050	10/08/21 18:24	
EPA 6020B	Boron	0.90	mg/L	0.040	10/08/21 18:24	
EPA 6020B	Cobalt	0.0069	mg/L	0.0050	10/08/21 18:24	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	10/08/21 18:24	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 18:24	
SM 2540C-2011	Total Dissolved Solids	457	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	09/30/21 22:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	09/30/21 22:42	
EPA 300.0 Rev 2.1 1993	Sulfate	250	mg/L	6.0	10/01/21 08:58	
92563226008	BRGWC-30I					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	6.33	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	212	mg/L	1.0	10/06/21 19:25	
EPA 6020B	Barium	0.035	mg/L	0.0050	10/08/21 18:30	
EPA 6020B	Boron	1.7	mg/L	0.040	10/08/21 18:30	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	10/08/21 18:30	
EPA 6020B	Lithium	0.023J	mg/L	0.030	10/08/21 18:30	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	10/08/21 18:30	
SM 2540C-2011	Total Dissolved Solids	1050	mg/L	20.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/30/21 22:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/30/21 22:58	
EPA 300.0 Rev 2.1 1993	Sulfate	612	mg/L	14.0	10/01/21 09:14	
92563226009	BRGWC-32S					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	5.82	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	33.9	mg/L	1.0	10/06/21 19:30	
EPA 6020B	Barium	0.020	mg/L	0.0050	10/08/21 18:35	
EPA 6020B	Boron	0.91	mg/L	0.040	10/08/21 18:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	10/08/21 18:35	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	10/08/21 18:35	
EPA 6020B	Selenium	0.13	mg/L	0.0050	10/08/21 18:35	
SM 2540C-2011	Total Dissolved Solids	375	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	09/30/21 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	189	mg/L	4.0	10/01/21 09:29	
92563226012	DUP-3					
EPA 6010D	Calcium	209	mg/L	1.0	10/06/21 19:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563226012	DUP-3					
EPA 6020B	Barium	0.034	mg/L	0.0050	10/08/21 18:53	
EPA 6020B	Boron	1.6	mg/L	0.040	10/08/21 18:53	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	10/08/21 18:53	
EPA 6020B	Lithium	0.023J	mg/L	0.030	10/08/21 18:53	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	10/08/21 18:53	
SM 2540C-2011	Total Dissolved Solids	1140	mg/L	20.0	10/04/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	10/01/21 00:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	10/01/21 00:02	
EPA 300.0 Rev 2.1 1993	Sulfate	609	mg/L	14.0	10/01/21 09:45	
92563226013	BRGWC-521					
	Performed by	CUSTOME			09/29/21 13:18	
		R				
	pH	6.81	Std. Units		09/29/21 13:18	
EPA 6010D	Iron	5.7	mg/L	0.040	10/06/21 19:49	
EPA 6010D	Manganese	0.76	mg/L	0.040	10/06/21 19:49	
EPA 6010D	Potassium	4.8	mg/L	0.20	10/06/21 19:49	
EPA 6010D	Sodium	18.2	mg/L	1.0	10/06/21 19:49	
EPA 6010D	Calcium	39.5	mg/L	1.0	10/06/21 19:49	
EPA 6010D	Magnesium	17.6	mg/L	0.050	10/06/21 19:49	
EPA 6010D	Hardness, Total(SM 2340B)	171	mg/L	2.7	10/06/21 19:49	
EPA 6020B	Barium	0.013	mg/L	0.0050	10/08/21 18:58	
EPA 6020B	Boron	1.4	mg/L	0.040	10/08/21 18:58	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	10/08/21 18:58	
SM 2540C-2011	Total Dissolved Solids	336	mg/L	10.0	10/04/21 15:36	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	75.4	mg/L	5.0	10/11/21 23:30	
SM 2320B-2011	Alkalinity, Total as CaCO3	75.4	mg/L	5.0	10/11/21 23:30	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	10/01/21 00:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	10/01/21 00:18	
EPA 300.0 Rev 2.1 1993	Sulfate	132	mg/L	3.0	10/01/21 10:01	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-45		Lab ID: 92563226001		Collected: 09/23/21 12:15		Received: 09/23/21 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/24/21 10:45		
pH	5.95	Std. Units			1		09/24/21 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	32.0	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:27	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:17	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:17	7440-41-7	
Boron	0.029J	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:17	7440-47-3	
Cobalt	0.0049J	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:17	7439-92-1	
Lithium	0.0023J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:17	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	0.000078	1	10/11/21 15:05	10/12/21 09:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	277	mg/L	10.0	10.0	1		09/30/21 18:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	29.3	mg/L	1.0	0.60	1		09/27/21 08:04	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		09/27/21 08:04	16984-48-8	
Sulfate	97.5	mg/L	2.0	1.0	2		09/27/21 15:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-47		Lab ID: 92563226002		Collected: 09/23/21 13:35		Received: 09/23/21 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/24/21 10:46		
pH	5.74	Std. Units			1		09/24/21 10:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	336	mg/L	10.0	1.2	10	10/06/21 14:05	10/07/21 16:32	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	0.00078	1	10/07/21 09:38	10/08/21 17:22	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:22	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:22	7440-41-7	
Boron	0.47	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:22	7439-92-1	
Lithium	0.042	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:22	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	0.000078	1	10/11/21 15:05	10/12/21 09:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1770	mg/L	100	100	1		09/30/21 18:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.3	mg/L	1.0	0.60	1		09/27/21 08:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/21 08:19	16984-48-8	
Sulfate	1240	mg/L	27.0	13.5	27		09/27/21 15:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-50		Lab ID: 92563226003		Collected: 09/27/21 13:05		Received: 09/28/21 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/28/21 17:32		
pH	5.05	Std. Units			1		09/28/21 17:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Manganese	78.0	mg/L	0.40	0.043	10	10/06/21 14:05	10/07/21 16:37	7439-96-5	
Iron	0.15	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 18:51	7439-89-6	
Potassium	9.7	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 18:51	7440-09-7	
Sodium	46.3	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 18:51	7440-23-5	
Calcium	196	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:51	7440-70-2	
Magnesium	136	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 18:51	7439-95-4	
Hardness, Total(SM 2340B)	1050	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 18:51		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:45	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:45	7440-39-3	
Beryllium	0.0060	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:45	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:45	7440-42-8	
Cadmium	0.0095	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:45	7440-47-3	
Cobalt	1.3	mg/L	0.050	0.0039	10	10/07/21 09:38	10/11/21 14:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:45	7439-92-1	
Lithium	0.038	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:45	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:45	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	0.000078	1	10/11/21 15:05	10/12/21 09:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1800	mg/L	100	100	1		09/30/21 19:01		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	11.2	mg/L	5.0	5.0	1		10/07/21 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:14		
Alkalinity, Total as CaCO3	11.2	mg/L	5.0	5.0	1		10/07/21 19:14		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Sample: BRGWC-50		Lab ID: 92563226003		Collected: 09/27/21 13:05		Received: 09/28/21 10:18		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							
Chloride	16.2	mg/L	1.0	0.60	1		09/30/21 16:20	16887-00-6	
Fluoride	0.43	mg/L	0.10	0.050	1		09/30/21 16:20	16984-48-8	
Sulfate	1180	mg/L	26.0	13.0	26		10/01/21 04:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville							
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		10/11/21 11:31		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: DUP-2		Lab ID: 92563226004		Collected: 09/27/21 00:00		Received: 09/28/21 10:18		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	76.2	mg/L	0.40	0.043	10	10/06/21 14:05	10/07/21 16:41	7439-96-5		
Iron	0.14	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 18:56	7439-89-6		
Potassium	9.4	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 18:56	7440-09-7		
Sodium	45.2	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 18:56	7440-23-5		
Calcium	191	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:56	7440-70-2		
Magnesium	133	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 18:56	7439-95-4		
Hardness, Total(SM 2340B)	1020	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 18:56			
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:51	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:51	7440-38-2		
Barium	0.018	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:51	7440-39-3		
Beryllium	0.0058	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:51	7440-41-7		
Boron	0.32	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:51	7440-42-8		
Cadmium	0.0099	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:51	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:51	7440-47-3		
Cobalt	1.3	mg/L	0.050	0.0039	10	10/07/21 09:38	10/11/21 14:45	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:51	7439-92-1		
Lithium	0.039	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:51	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:51	7439-98-7		
Selenium	0.0022J	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:51	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:51	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	0.000078	1	10/11/21 15:05	10/12/21 10:02	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	1840	mg/L	100	100	1		09/30/21 19:01			
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	10.3	mg/L	5.0	5.0	1		10/07/21 19:20			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:20			
Alkalinity, Total as CaCO3	10.3	mg/L	5.0	5.0	1		10/07/21 19:20			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	16.2	mg/L	1.0	0.60	1		09/30/21 16:36	16887-00-6		
Fluoride	0.46	mg/L	0.10	0.050	1		09/30/21 16:36	16984-48-8		
Sulfate	1170	mg/L	26.0	13.0	26		10/01/21 04:47	14808-79-8	M1	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-25I		Lab ID: 92563226005		Collected: 09/28/21 11:26		Received: 09/29/21 11:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:17		
pH	5.97	Std. Units			1		09/29/21 13:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	38.4	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:10	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	0.00078	1	10/07/21 09:38	10/08/21 17:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:57	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:57	7440-41-7	
Boron	1.1	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:57	7440-47-3	
Cobalt	0.0029J	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:57	7439-93-2	
Molybdenum	0.00089J	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:57	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	0.000078	1	10/11/21 15:05	10/12/21 10:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	270	mg/L	10.0	10.0	1		10/03/21 11:39		
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		09/30/21 22:10	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		09/30/21 22:10	16984-48-8	
Sulfate	112	mg/L	3.0	1.5	3		10/01/21 08:27	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-271		Lab ID: 92563226006		Collected: 09/28/21 14:30		Received: 09/29/21 11:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:17		
pH	5.82	Std. Units			1		09/29/21 13:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	50.4	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:15	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	0.00078	1	10/07/21 09:38	10/08/21 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:18	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:18	7440-41-7	
Boron	0.95	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:18	7440-47-3	
Cobalt	0.0047J	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:18	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:18	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	0.000078	1	10/11/21 15:05	10/12/21 10:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	262	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.7	mg/L	1.0	0.60	1		09/30/21 22:26	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/30/21 22:26	16984-48-8	
Sulfate	137	mg/L	3.0	1.5	3		10/01/21 08:42	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Sample: BRGWC-29I		Lab ID: 92563226007		Collected: 09/28/21 12:51		Received: 09/29/21 11:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:17		
pH	4.23	Std. Units			1		09/29/21 13:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	59.5	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:20	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	0.00078	1	10/07/21 09:38	10/08/21 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:24	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:24	7440-39-3	
Beryllium	0.00079	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:24	7440-41-7	
Boron	0.90	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:24	7440-47-3	
Cobalt	0.0069	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:24	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:24	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 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	0.000078	1	10/11/21 15:05	10/12/21 10:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	457	mg/L	10.0	10.0	1		10/03/21 11:40		
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		09/30/21 22:42	16887-00-6	
Fluoride	0.081J	mg/L	0.10	0.050	1		09/30/21 22:42	16984-48-8	
Sulfate	250	mg/L	6.0	3.0	6		10/01/21 08:58	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-30I	Lab ID: 92563226008	Collected: 09/28/21 16:30	Received: 09/29/21 11:57	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:17		
pH	6.33	Std. Units			1		09/29/21 13:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	212	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:25	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	0.00078	1	10/07/21 09:38	10/08/21 18:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:30	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:30	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:30	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:30	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:30	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:30	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	0.000078	1	10/11/21 15:05	10/12/21 10:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1050	mg/L	20.0	20.0	1		10/03/21 11:40		
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		09/30/21 22:58	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/30/21 22:58	16984-48-8	
Sulfate	612	mg/L	14.0	7.0	14		10/01/21 09:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-32S		Lab ID: 92563226009		Collected: 09/28/21 16:40	Received: 09/29/21 11:57	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:17		
pH	5.82	Std. Units			1		09/29/21 13:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.9	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:30	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	0.00078	1	10/07/21 09:38	10/08/21 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:35	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:35	7440-41-7	
Boron	0.91	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:35	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:35	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:35	7439-98-7	
Selenium	0.13	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:35	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	0.000078	1	10/11/21 15:05	10/12/21 10:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	375	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.6	mg/L	1.0	0.60	1		09/30/21 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:14	16984-48-8	
Sulfate	189	mg/L	4.0	2.0	4		10/01/21 09:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: EB-2		Lab ID: 92563226010		Collected: 09/28/21 14:50	Received: 09/29/21 11:57	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	10/06/21 14:05	10/06/21 19:34	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	0.00078	1	10/07/21 09:38	10/08/21 18:41	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:41	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:41	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:41	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:41	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:41	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:41	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:41	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:41	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:41	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:41	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:41	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:41	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	0.000078	1	10/11/21 15:05	10/12/21 10:23	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/03/21 11:40			
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		09/30/21 23:30	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:30	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/21 23:30	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: FB-2		Lab ID: 92563226011		Collected: 09/28/21 13:15	Received: 09/29/21 11:57	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
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	10/06/21 14:05	10/06/21 19:39	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	0.00078	1	10/07/21 09:38	10/08/21 18:47	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:47	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:47	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:47	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:47	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:47	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:47	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:47	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:47	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:47	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:47	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:47	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:47	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	0.000078	1	10/11/21 15:05	10/12/21 10:25	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/03/21 11:40			
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		09/30/21 23:46	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:46	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/21 23:46	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: DUP-3		Lab ID: 92563226012		Collected: 09/28/21 00:00	Received: 09/29/21 11:57	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	209	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:44	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	0.00078	1	10/07/21 09:38	10/08/21 18:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:53	7440-38-2		
Barium	0.034	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:53	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:53	7440-41-7		
Boron	1.6	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:53	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:53	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:53	7440-47-3		
Cobalt	0.0010J	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:53	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:53	7439-92-1		
Lithium	0.023J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:53	7439-93-2		
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:53	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:53	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	0.000078	1	10/11/21 15:05	10/12/21 10:28	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	1140	mg/L	20.0	20.0	1		10/04/21 15:36			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	3.5	mg/L	1.0	0.60	1		10/01/21 00:02	16887-00-6		
Fluoride	0.11	mg/L	0.10	0.050	1		10/01/21 00:02	16984-48-8		
Sulfate	609	mg/L	14.0	7.0	14		10/01/21 09:45	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-52I	Lab ID: 92563226013	Collected: 09/28/21 16:16	Received: 09/29/21 11:57	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/21 13:18		
pH	6.81	Std. Units			1		09/29/21 13:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	5.7	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 19:49	7439-89-6	
Manganese	0.76	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 19:49	7439-96-5	
Potassium	4.8	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 19:49	7440-09-7	
Sodium	18.2	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 19:49	7440-23-5	
Calcium	39.5	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:49	7440-70-2	
Magnesium	17.6	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 19:49	7439-95-4	
Hardness, Total(SM 2340B)	171	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 19:49		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:58	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:58	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:58	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 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	0.000078	1	10/11/21 15:05	10/12/21 10:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	336	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	75.4	mg/L	5.0	5.0	1		10/11/21 23:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:30		
Alkalinity, Total as CaCO3	75.4	mg/L	5.0	5.0	1		10/11/21 23:30		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-521 Lab ID: 92563226013 Collected: 09/28/21 16:16 Received: 09/29/21 11:57 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									
Chloride	5.5	mg/L	1.0	0.60	1		10/01/21 00:18	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		10/01/21 00:18	16984-48-8	
Sulfate	132	mg/L	3.0	1.5	3		10/01/21 10:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Rev 2.0 1993									
Pace Analytical Services - Asheville									
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		10/11/21 12:36		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: FB-3		Lab ID: 92563226014		Collected: 09/28/21 16:15	Received: 09/29/21 11:57	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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	10/06/21 14:05	10/06/21 20:08	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 20:08	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 20:08	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 20:08	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 20:08	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 20:08	7439-95-4	
Hardness, Total(SM 2340B)	ND	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 20:08		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 19:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 19:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 19:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 19:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 19:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 19:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 19:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 19:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 19:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 19:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 19:10	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	0.000078	1	10/11/21 15:05	10/12/21 10:33	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
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		10/01/21 00:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/01/21 00:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/01/21 00:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: EB-3		Lab ID: 92563226015		Collected: 09/28/21 16:40	Received: 09/29/21 11:57	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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	10/06/21 14:05	10/06/21 20:13	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 20:13	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 20:13	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 20:13	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 20:13	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 20:13	7439-95-4	
Hardness, Total(SM 2340B)	ND	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 20:13		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:27	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 19:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 19:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 19:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 19:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 19:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 19:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 19:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 19:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 19:27	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	0.000078	1	10/11/21 15:05	10/12/21 10:36	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
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		10/01/21 01:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/01/21 01:53	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/01/21 01:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651173 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3415002 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/06/21 18:17	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	10/06/21 18:17	
Iron	mg/L	ND	0.040	0.025	10/06/21 18:17	
Magnesium	mg/L	ND	0.050	0.012	10/06/21 18:17	
Manganese	mg/L	ND	0.040	0.0043	10/06/21 18:17	
Potassium	mg/L	ND	0.20	0.15	10/06/21 18:17	
Sodium	mg/L	ND	1.0	0.58	10/06/21 18:17	

LABORATORY CONTROL SAMPLE: 3415003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Hardness, Total(SM 2340B)	mg/L	6.6	6.7	102	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3415004 3415005

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92563226001 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	32.0	1	1	34.1	34.7	206	267	75-125	2	20	M1	
Hardness, Total(SM 2340B)	mg/L	144	6.6	6.6	154	157	165	211	75-125	2	20		
Iron	mg/L	0.66	1	1	1.7	1.7	107	108	75-125	1	20		
Magnesium	mg/L	15.4	1	1	16.8	17.2	141	177	75-125	2	20	M1	
Manganese	mg/L	0.30	1	1	1.3	1.3	100	102	75-125	1	20		
Potassium	mg/L	3.4	1	1	4.4	4.5	106	117	75-125	2	20		
Sodium	mg/L	13.9	1	1	15.3	15.7	142	176	75-125	2	20	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651350 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3415849 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	10/08/21 17:05	
Arsenic	mg/L	ND	0.0050	0.0011	10/08/21 17:05	
Barium	mg/L	ND	0.0050	0.00067	10/08/21 17:05	
Beryllium	mg/L	ND	0.00050	0.000054	10/08/21 17:05	
Boron	mg/L	ND	0.040	0.0086	10/08/21 17:05	
Cadmium	mg/L	ND	0.00050	0.00011	10/08/21 17:05	
Chromium	mg/L	ND	0.0050	0.0011	10/08/21 17:05	
Cobalt	mg/L	ND	0.0050	0.00039	10/08/21 17:05	
Lead	mg/L	ND	0.0010	0.00089	10/08/21 17:05	
Lithium	mg/L	ND	0.030	0.00073	10/08/21 17:05	
Molybdenum	mg/L	ND	0.010	0.00074	10/08/21 17:05	
Selenium	mg/L	ND	0.0050	0.0014	10/08/21 17:05	
Thallium	mg/L	ND	0.0010	0.00018	10/08/21 17:05	

LABORATORY CONTROL SAMPLE: 3415850

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	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Parameter	Units	3415851		3415852		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92563226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	110	75-125	2	20		
Arsenic	mg/L	0.0020J	0.1	0.1	0.10	0.10	103	102	75-125	0	20		
Barium	mg/L	0.031	0.1	0.1	0.13	0.13	97	101	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Boron	mg/L	0.47	1	1	1.4	1.4	89	92	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Lithium	mg/L	0.042	0.1	0.1	0.13	0.14	92	95	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	107	105	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	94	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92563226

QC Batch:	652043	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3419327 Matrix: Water

Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	10/12/21 09:39	

LABORATORY CONTROL SAMPLE: 3419328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419329 3419330

Parameter	Units	92563226003		3419330		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0021	85	80	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92563226

QC Batch: 650109

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004

METHOD BLANK: 3409662

Matrix: Water

Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/21 18:57	

LABORATORY CONTROL SAMPLE: 3409663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3409664

Parameter	Units	92563226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	277	284	2	10	

SAMPLE DUPLICATE: 3409665

Parameter	Units	92563599002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	85.0	9	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650392 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011

METHOD BLANK: 3411236 Matrix: Water
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/03/21 11:38	

LABORATORY CONTROL SAMPLE: 3411237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3411239

Parameter	Units	92563761007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	181	181	0	10	

SAMPLE DUPLICATE: 3412138

Parameter	Units	92563761002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1580	2	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650655 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3412467 Matrix: Water
Associated Lab Samples: 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/04/21 15:35	

LABORATORY CONTROL SAMPLE: 3412468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	90-111	

SAMPLE DUPLICATE: 3412470

Parameter	Units	92564073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6620	5680	15	10	D6

SAMPLE DUPLICATE: 3412668

Parameter	Units	92563226012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1130	1	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651424 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92563226003, 92563226004

METHOD BLANK: 3416272 Matrix: Water

Associated Lab Samples: 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	10/07/21 17:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	10/07/21 17:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	10/07/21 17:20	

LABORATORY CONTROL SAMPLE: 3416273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

LABORATORY CONTROL SAMPLE: 3416274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3416275 3416276

Parameter	Units	92563915005		3416275		3416276		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.0	59.9	93	110	16	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3416277 3416278

Parameter	Units	92563915006		3416277		3416278		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	25.0	50	50	72.9	73.7	96	97	1	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651992 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226013, 92563226014, 92563226015

METHOD BLANK: 3419013 Matrix: Water
Associated Lab Samples: 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	10/11/21 20:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	10/11/21 20:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	10/11/21 20:50	

LABORATORY CONTROL SAMPLE: 3419014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

LABORATORY CONTROL SAMPLE: 3419015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	54.6	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419016 3419017

Parameter	Units	92564448001		3419016		3419017		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	82.1	50	50	114	113	65	61	80-120	2	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419018 3419019

Parameter	Units	92564448007		3419018		3419019		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	66.5	50	50	119	121	104	108	80-120	2	25

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 649415 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226001, 92563226002

METHOD BLANK: 3406128 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/27/21 06:19	
Fluoride	mg/L	ND	0.10	0.050	09/27/21 06:19	
Sulfate	mg/L	ND	1.0	0.50	09/27/21 06:19	

LABORATORY CONTROL SAMPLE: 3406129

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	2.5	102	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406130 3406131

Parameter	Units	92562974010		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	6.1	50	50	59.7	60.7	107	109	90-110	2	10		
Fluoride	mg/L	0.071J	2.5	2.5	2.9	2.9	114	115	90-110	1	10	M1	
Sulfate	mg/L	258	50	50	303	305	91	94	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406132 3406133

Parameter	Units	92563313008		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	103	50	50	150	150	94	94	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.9	3.7	156	146	90-110	6	10	M1	
Sulfate	mg/L	433	50	50	482	481	98	96	90-110	0	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650118 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226003, 92563226004

METHOD BLANK: 3409685 Matrix: Water
Associated Lab Samples: 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/21 12:38	
Fluoride	mg/L	ND	0.10	0.050	09/30/21 12:38	
Sulfate	mg/L	ND	1.0	0.50	09/30/21 12:38	

LABORATORY CONTROL SAMPLE: 3409686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409687 3409688

Parameter	Units	92563859001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	1030	50	50	1080	1090	110	129	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	1.5	1.6	62	63	90-110	2	10	M1	
Sulfate	mg/L	1290	50	50	1350	1370	124	150	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409689 3409690

Parameter	Units	92563226004		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	16.2	50	50	63.6	64.7	95	97	90-110	2	10		
Fluoride	mg/L	0.46	2.5	2.5	3.1	3.1	104	106	90-110	2	10		
Sulfate	mg/L	1170	50	50	1200	1200	65	48	90-110	1	10	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch:	650124	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3409716 Matrix: Water
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/21 20:19	
Fluoride	mg/L	ND	0.10	0.050	09/30/21 20:19	
Sulfate	mg/L	ND	1.0	0.50	09/30/21 20:19	

LABORATORY CONTROL SAMPLE: 3409717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409718 3409719

Parameter	Units	92563761009		3409719		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	27.2	50	50	74.3	75.0	94	95	90-110	1	10
Fluoride	mg/L	1.6	2.5	2.5	4.3	4.4	107	110	90-110	2	10
Sulfate	mg/L	1670	50	50	1680	1680	26	13	90-110	0	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409720 3409721

Parameter	Units	92563226014		3409721		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50	47.4	47.9	95	96	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	1	10
Sulfate	mg/L	ND	50	50	50.4	51.0	101	102	90-110	1	10

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD

Pace Project No.: 92563226

QC Batch: 651968

Analysis Method: EPA 353.2 Rev 2.0 1993

QC Batch Method: EPA 353.2 Rev 2.0 1993

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92563226003

METHOD BLANK: 3418960

Matrix: Water

Associated Lab Samples: 92563226003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	10/11/21 11:02	

LABORATORY CONTROL SAMPLE: 3418961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418962 3418963

Parameter	Units	92564311001		3418962		3418963		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	0.058	2.5	2.5	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418964 3418965

Parameter	Units	92564312001		3418964		3418965		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	0.052	2.5	2.5	2.5	1.8	1.8	69	68	90-110	0	10 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651970 Analysis Method: EPA 353.2 Rev 2.0 1993
QC Batch Method: EPA 353.2 Rev 2.0 1993 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92563226013

METHOD BLANK: 3418972 Matrix: Water
Associated Lab Samples: 92563226013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	10/11/21 12:11	

LABORATORY CONTROL SAMPLE: 3418973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418974 3418975

Parameter	Units	92562907001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Nitrogen, NO2 plus NO3	mg/L	43.3	2.5	2.5	46.1	46.0	112	106	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418976 3418977

Parameter	Units	92562911001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	92	93	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRANCH AP-BCD

Pace Project No.: 92563226

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD

Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563226001	BRGWC-45				
92563226002	BRGWC-47				
92563226003	BRGWC-50				
92563226005	BRGWC-25I				
92563226006	BRGWC-27I				
92563226007	BRGWC-29I				
92563226008	BRGWC-30I				
92563226009	BRGWC-32S				
92563226013	BRGWC-52I				
92563226001	BRGWC-45	EPA 3010A	651173	EPA 6010D	651248
92563226002	BRGWC-47	EPA 3010A	651173	EPA 6010D	651248
92563226003	BRGWC-50	EPA 3010A	651173	EPA 6010D	651248
92563226004	DUP-2	EPA 3010A	651173	EPA 6010D	651248
92563226005	BRGWC-25I	EPA 3010A	651173	EPA 6010D	651248
92563226006	BRGWC-27I	EPA 3010A	651173	EPA 6010D	651248
92563226007	BRGWC-29I	EPA 3010A	651173	EPA 6010D	651248
92563226008	BRGWC-30I	EPA 3010A	651173	EPA 6010D	651248
92563226009	BRGWC-32S	EPA 3010A	651173	EPA 6010D	651248
92563226010	EB-2	EPA 3010A	651173	EPA 6010D	651248
92563226011	FB-2	EPA 3010A	651173	EPA 6010D	651248
92563226012	DUP-3	EPA 3010A	651173	EPA 6010D	651248
92563226013	BRGWC-52I	EPA 3010A	651173	EPA 6010D	651248
92563226014	FB-3	EPA 3010A	651173	EPA 6010D	651248
92563226015	EB-3	EPA 3010A	651173	EPA 6010D	651248
92563226001	BRGWC-45	EPA 3005A	651350	EPA 6020B	651455
92563226002	BRGWC-47	EPA 3005A	651350	EPA 6020B	651455
92563226003	BRGWC-50	EPA 3005A	651350	EPA 6020B	651455
92563226004	DUP-2	EPA 3005A	651350	EPA 6020B	651455
92563226005	BRGWC-25I	EPA 3005A	651350	EPA 6020B	651455
92563226006	BRGWC-27I	EPA 3005A	651350	EPA 6020B	651455
92563226007	BRGWC-29I	EPA 3005A	651350	EPA 6020B	651455
92563226008	BRGWC-30I	EPA 3005A	651350	EPA 6020B	651455
92563226009	BRGWC-32S	EPA 3005A	651350	EPA 6020B	651455
92563226010	EB-2	EPA 3005A	651350	EPA 6020B	651455
92563226011	FB-2	EPA 3005A	651350	EPA 6020B	651455
92563226012	DUP-3	EPA 3005A	651350	EPA 6020B	651455
92563226013	BRGWC-52I	EPA 3005A	651350	EPA 6020B	651455
92563226014	FB-3	EPA 3005A	651350	EPA 6020B	651455
92563226015	EB-3	EPA 3005A	651350	EPA 6020B	651455
92563226001	BRGWC-45	EPA 7470A	652043	EPA 7470A	652216
92563226002	BRGWC-47	EPA 7470A	652043	EPA 7470A	652216
92563226003	BRGWC-50	EPA 7470A	652043	EPA 7470A	652216
92563226004	DUP-2	EPA 7470A	652043	EPA 7470A	652216
92563226005	BRGWC-25I	EPA 7470A	652043	EPA 7470A	652216
92563226006	BRGWC-27I	EPA 7470A	652043	EPA 7470A	652216
92563226007	BRGWC-29I	EPA 7470A	652043	EPA 7470A	652216
92563226008	BRGWC-30I	EPA 7470A	652043	EPA 7470A	652216

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563226009	BRGWC-32S	EPA 7470A	652043	EPA 7470A	652216
92563226010	EB-2	EPA 7470A	652043	EPA 7470A	652216
92563226011	FB-2	EPA 7470A	652043	EPA 7470A	652216
92563226012	DUP-3	EPA 7470A	652043	EPA 7470A	652216
92563226013	BRGWC-52I	EPA 7470A	652043	EPA 7470A	652216
92563226014	FB-3	EPA 7470A	652043	EPA 7470A	652216
92563226015	EB-3	EPA 7470A	652043	EPA 7470A	652216
92563226001	BRGWC-45	SM 2540C-2011	650109		
92563226002	BRGWC-47	SM 2540C-2011	650109		
92563226003	BRGWC-50	SM 2540C-2011	650109		
92563226004	DUP-2	SM 2540C-2011	650109		
92563226005	BRGWC-25I	SM 2540C-2011	650392		
92563226006	BRGWC-27I	SM 2540C-2011	650392		
92563226007	BRGWC-29I	SM 2540C-2011	650392		
92563226008	BRGWC-30I	SM 2540C-2011	650392		
92563226009	BRGWC-32S	SM 2540C-2011	650392		
92563226010	EB-2	SM 2540C-2011	650392		
92563226011	FB-2	SM 2540C-2011	650392		
92563226012	DUP-3	SM 2540C-2011	650655		
92563226013	BRGWC-52I	SM 2540C-2011	650655		
92563226014	FB-3	SM 2540C-2011	650655		
92563226015	EB-3	SM 2540C-2011	650655		
92563226003	BRGWC-50	SM 2320B-2011	651424		
92563226004	DUP-2	SM 2320B-2011	651424		
92563226013	BRGWC-52I	SM 2320B-2011	651992		
92563226014	FB-3	SM 2320B-2011	651992		
92563226015	EB-3	SM 2320B-2011	651992		
92563226001	BRGWC-45	EPA 300.0 Rev 2.1 1993	649415		
92563226002	BRGWC-47	EPA 300.0 Rev 2.1 1993	649415		
92563226003	BRGWC-50	EPA 300.0 Rev 2.1 1993	650118		
92563226004	DUP-2	EPA 300.0 Rev 2.1 1993	650118		
92563226005	BRGWC-25I	EPA 300.0 Rev 2.1 1993	650124		
92563226006	BRGWC-27I	EPA 300.0 Rev 2.1 1993	650124		
92563226007	BRGWC-29I	EPA 300.0 Rev 2.1 1993	650124		
92563226008	BRGWC-30I	EPA 300.0 Rev 2.1 1993	650124		
92563226009	BRGWC-32S	EPA 300.0 Rev 2.1 1993	650124		
92563226010	EB-2	EPA 300.0 Rev 2.1 1993	650124		
92563226011	FB-2	EPA 300.0 Rev 2.1 1993	650124		
92563226012	DUP-3	EPA 300.0 Rev 2.1 1993	650124		
92563226013	BRGWC-52I	EPA 300.0 Rev 2.1 1993	650124		
92563226014	FB-3	EPA 300.0 Rev 2.1 1993	650124		
92563226015	EB-3	EPA 300.0 Rev 2.1 1993	650124		
92563226003	BRGWC-50	EPA 353.2 Rev 2.0 1993	651968		
92563226013	BRGWC-52I	EPA 353.2 Rev 2.0 1993	651970		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA POWER

Project #:

WO# : 92563226

Courier: Fed Ex UPS USPS Other: Pace Other:



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/23/21 KAW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: IAR230 Type of Ice: Wet Blue None

Cooler Temp: 1.2 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): 1.3

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4 <u>10 Day</u>
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*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

Project # **WO# : 92563226**

PM: NMG

Due Date: 10/07/21

CLIENT: GA-GA Power

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)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	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 DEHNR 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:

Company: Georgia Power - Coal Combustion Residuals
 Address: 1100 Millidgeville Rd
 Millidgeville, GA 31061
 Email: jlabraham@southemco.com
 Phone: (404) 506-7239
 Fax: [Blank]
 Requested Due Date: 10 Day TAT

Section B

Required Project Information:

Report To: Jitu Abraham
 Copy To: Golder
 Purchase Order #: [Blank]
 Project Name: Plant Branch AP-BCD
 Project #: 169525421
 Address: [Blank]
 Company Name: [Blank]
 Peco Project Manager: Kevin Herring
 Pace Profile #: [Blank]

Section C

Invoice Information:

Attention: [Blank]
 Address: [Blank]
 Company Name: [Blank]
 Peco Project Manager: Kevin Herring
 Pace Profile #: [Blank]

ITEM #	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	pH	
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol						Other
1	BRGWC-45	G	9/23/2021	12:15		5	2	3							X	X	X		pH = 5.95
2	BRGWC-47	G	9/23/2021	13:35		5	2	3							X	X	X		pH = 5.74
3																			
4																			
5																			
6																			
7																			
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12																			


ADDITIONAL COMMENTS

REQUISITIONED BY / AFFILIATION: [Blank]
 DATE: 9/23
 TIME: 17:10
 ACCEPTED BY / AFFILIATION: [Blank]
 DATE: 9/23
 TIME: 17:10

SAMPLE CONDITIONS

TEMP in C: [Blank]
 Received on Ice (Y/N): [Blank]
 Custody Sealed Cooler (Y/N): [Blank]
 Samples Intact (Y/N): [Blank]

Jude Wagespeak DATE Signed: 9-23

	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>Georgia Power</u>	Project #:
	Courier: <input type="checkbox"/> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/28/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.4 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): 3.5

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*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

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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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-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 DEHNR 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.

Rec Analytical

Section A
Requested Client Information: Georgia Power, Coal Contribution Remedial, 1100 Middlebridge Rd, Marietta, GA 30061
Requester Contact: John Alvarado, 404-566-7239, j.alvarado@epa.gov

Section B
Requested Project Information: Report To: John Alvarado, Copy To: Golder
Project Name: Part Branch AB-BCD
Requester Due Date: 18 Day 1st

Section C
Invoice Information: Attention: ashivadev@scuhenrce.com
Company Name: SCUHENRCE
Address: SCUHENRCE
Price Class: Project Manager
Price Profile: Kevin Herring
Regulatory Agency: GA
State/Location: GA

Page: 1 of 1

ITEM #	MATRIX CODE (see vial codes to left)	SAMPLE TYPE (S=SOIL, D=DIRT, etc)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS		Preservatives		Analyses Test		Residual Chlorine (Y/N)	
						Unpreserved	Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate		Na2S2O3
1	BRSWC 50	G	9/27/2021	13:05		5	2						
2	DJPR 2	G	9/27/2021			5	2						
3													
4													
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ADDITIONAL COMMENTS: SPW.../sample 9-28-21 08:35
ACCEPTED BY / AFFILIATION: Elaine Cook
DATE: 9/28/21
TIME: 5:35
SAMPLE CONDITIONS: V W V

DATE Signed: 9-28-21
Jude Boguespack / SPW...
TEMP in C: _____
Received on Ice (Y/N): _____
Custody Sealed/Cooler (Y/N): _____
Samples Intact (Y/N): _____

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: G-A Power

Project #:

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/29/21
COH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.3 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): 4.3

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

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 2N Acetate & NaOH (>9)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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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 DEHNR 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: Georgia Power - Coal Combustion Residuals, 1100 Hillsideville Rd, Marietta, GA 30067. **Section B** Required Project Information: Report To: Jeff Abraham, Copy To: Golder. **Section C** Sample Information: Attention: achen@pace-analytical.com, Address: Pace Profile #, Pace Project Manager: Kevin Herring, State / Location: GA.

Requested Date: 10 Day TAT
Requested Date: 9/25/21
Requested Date: 9/25/21
Requested Date: 9/25/21

ITEM #	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	PH	ADDITIONAL COMMENTS				
											WT	WT	WT	WT	
1	BRGWC-251	G	9/28/2021	11:28		5	Unpreserved - Ice	App III/IV Total Metals		5.97					
2	BRGWC-271	G	9/28/2021	14:30		5	H2SO4	Cl, F, SO4, TD6		5.82					
3	BRGWC-291	G	9/28/2021	12:51		7	HNO3 + Ice	Radium 226/228		4.23					
4	BRGWC-301	G	9/28/2021	16:30		5	HCl	Cations/Anions (Fe, Mn, K, Na, Mg)		6.33					
5	BRGWC-325	G	9/28/2021	16:40		6	NaOH + Zn Acetate	Alkalinity (total, carbonate bicarbonate)		5.82					
6	BRGWC-521	G	9/28/2021	16:16		2	Methano	NO2/NO3		6.81					
7	EB-2	G	9/28/2021	14:50		3	Other			N/A					
8	FB-2	G	9/28/2021	13:15		3				N/A					
9	DUP-3	G	9/28/2021	-		3				N/A					
10	FB-3	G	9/28/2021	16:15		3				N/A					
11	EB-3	G	9/28/2021	16:40		3				N/A					
12															

Requested Date: 9-25-21 11:57 AM
Requested Date: 9-25-21
Requested Date: 9-25-21
Requested Date: 9-25-21

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

March 18, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 03, 2021 and March 05, 2021. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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 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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525375001	BRGWA-12S	Water	03/02/21 11:50	03/03/21 10:03
92525375002	BRGWA-12I	Water	03/02/21 08:56	03/03/21 10:03
92525375003	BRGWA-23S	Water	03/02/21 15:55	03/03/21 10:03
92525375004	BRGWC-45	Water	03/02/21 13:40	03/03/21 10:03
92525375005	BRGWC-47	Water	03/02/21 15:48	03/03/21 10:03
92525375006	BRGWC-25I	Water	03/02/21 17:08	03/03/21 10:03
92525375007	BRGWC-27I	Water	03/03/21 14:14	03/04/21 08:15
92525375008	BRGWC-29I	Water	03/03/21 16:12	03/04/21 08:15
92525375009	BRGWC-30I	Water	03/03/21 13:06	03/04/21 08:15
92525375010	DUP-1	Water	03/03/21 13:06	03/04/21 08:15
92525375011	BRGWC-32S	Water	03/04/21 11:11	03/05/21 11:30
92525375012	BRGWC-52I	Water	03/04/21 12:20	03/05/21 11:30
92525375013	EB-2	Water	03/04/21 12:40	03/05/21 11:30
92525375014	BRGWC-50	Water	03/04/21 17:07	03/05/21 11:30
92525375015	EB-1	Water	03/05/21 07:31	03/05/21 11:30

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525375001	BRGWA-12S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375002	BRGWA-12I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375003	BRGWA-23S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375004	BRGWC-45	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375005	BRGWC-47	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375006	BRGWC-25I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375007	BRGWC-27I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375008	BRGWC-29I	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525375009	BRGWC-30I	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525375010	DUP-1	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
92525375011	BRGWC-32S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92525375012	BRGWC-52I	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375013	EB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92525375014	BRGWC-50	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525375015	EB-1	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525375001	BRGWA-12S					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.92	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	5.4	mg/L	1.0	03/10/21 01:21	M1
EPA 6020B	Barium	0.063	mg/L	0.0050	03/10/21 10:18	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/10/21 10:18	
SM 2450C-2011	Total Dissolved Solids	43.0	mg/L	10.0	03/05/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	03/12/21 04:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	03/12/21 04:17	M1
92525375002	BRGWA-12I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	6.11	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	11.7	mg/L	1.0	03/10/21 01:41	
EPA 6020B	Antimony	0.0095	mg/L	0.0030	03/10/21 10:41	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/10/21 10:41	
EPA 6020B	Boron	0.0057J	mg/L	0.040	03/10/21 10:41	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 10:41	
EPA 6020B	Lithium	0.0045J	mg/L	0.030	03/10/21 10:41	
SM 2450C-2011	Total Dissolved Solids	93.0	mg/L	10.0	03/05/21 15:33	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/12/21 05:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	03/12/21 05:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/12/21 05:00	
92525375003	BRGWA-23S					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.75	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	11.6	mg/L	1.0	03/10/21 01:55	
EPA 6020B	Barium	0.097	mg/L	0.0050	03/10/21 10:47	
EPA 6020B	Boron	0.042	mg/L	0.040	03/10/21 10:47	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 10:47	
EPA 6020B	Lithium	0.0093J	mg/L	0.030	03/10/21 10:47	
EPA 6020B	Selenium	0.0060	mg/L	0.0050	03/10/21 10:47	
SM 2450C-2011	Total Dissolved Solids	105	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	03/12/21 05:14	
EPA 300.0 Rev 2.1 1993	Sulfate	54.0	mg/L	1.0	03/12/21 05:14	
92525375004	BRGWC-45					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	6.17	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	33.9	mg/L	1.0	03/10/21 02:00	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/10/21 10:53	
EPA 6020B	Barium	0.061	mg/L	0.0050	03/10/21 10:53	
EPA 6020B	Boron	0.044	mg/L	0.040	03/10/21 10:53	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	03/10/21 10:53	
EPA 6020B	Cobalt	0.0057	mg/L	0.0050	03/10/21 10:53	
EPA 6020B	Lithium	0.0043J	mg/L	0.030	03/10/21 10:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525375004	BRGWC-45					
SM 2450C-2011	Total Dissolved Solids	264	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	25.8	mg/L	1.0	03/12/21 05:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	03/12/21 05:58	
EPA 300.0 Rev 2.1 1993	Sulfate	98.3	mg/L	2.0	03/12/21 09:54	
92525375005	BRGWC-47					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.59	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	353	mg/L	10.0	03/11/21 17:30	
EPA 6020B	Barium	0.036	mg/L	0.0050	03/10/21 10:58	
EPA 6020B	Boron	0.58	mg/L	0.040	03/10/21 10:58	
EPA 6020B	Cobalt	0.00050J	mg/L	0.0050	03/10/21 10:58	
EPA 6020B	Lithium	0.044	mg/L	0.030	03/10/21 10:58	
EPA 6020B	Selenium	0.0028J	mg/L	0.0050	03/10/21 10:58	
SM 2450C-2011	Total Dissolved Solids	1680	mg/L	100	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	03/12/21 06:12	
EPA 300.0 Rev 2.1 1993	Sulfate	1360	mg/L	29.0	03/12/21 10:08	
92525375006	BRGWC-25I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	6.10	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	44.1	mg/L	1.0	03/10/21 02:10	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/10/21 11:28	
EPA 6020B	Boron	1.1	mg/L	0.040	03/10/21 11:28	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/10/21 11:28	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/10/21 11:28	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	03/10/21 11:28	
SM 2450C-2011	Total Dissolved Solids	280	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/12/21 06:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	03/12/21 06:27	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	03/12/21 10:23	
92525375007	BRGWC-27I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.90	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	58.2	mg/L	1.0	03/10/21 02:15	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/10/21 11:33	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	03/10/21 11:33	
EPA 6020B	Boron	0.91	mg/L	0.040	03/10/21 11:33	
EPA 6020B	Cobalt	0.0062	mg/L	0.0050	03/10/21 11:33	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/10/21 11:33	
EPA 6020B	Selenium	0.0031J	mg/L	0.0050	03/10/21 11:33	
SM 2450C-2011	Total Dissolved Solids	288	mg/L	10.0	03/06/21 09:43	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/13/21 16:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	03/13/21 16:11	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	03/14/21 10:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525375008	BRGWC-29I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	4.46	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	73.3	mg/L	1.0	03/10/21 02:20	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Beryllium	0.00094	mg/L	0.00050	03/10/21 11:39	
EPA 6020B	Boron	1.0	mg/L	0.040	03/10/21 11:39	
EPA 6020B	Cobalt	0.0095	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Lead	0.00033J	mg/L	0.0010	03/10/21 11:39	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	03/10/21 11:39	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	03/10/21 11:39	
SM 2450C-2011	Total Dissolved Solids	515	mg/L	10.0	03/06/21 09:43	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	03/13/21 16:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/13/21 16:26	
EPA 300.0 Rev 2.1 1993	Sulfate	341	mg/L	7.0	03/14/21 11:00	
92525375009	BRGWC-30I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	6.29	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	122	mg/L	1.0	03/10/21 02:24	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/10/21 11:45	
EPA 6020B	Boron	1.4	mg/L	0.040	03/10/21 11:45	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	03/10/21 11:45	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/10/21 11:45	
SM 2450C-2011	Total Dissolved Solids	690	mg/L	10.0	03/06/21 09:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/13/21 17:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/13/21 17:23	
EPA 300.0 Rev 2.1 1993	Sulfate	371	mg/L	8.0	03/14/21 11:58	
92525375010	DUP-1					
EPA 6010D	Calcium	57.0	mg/L	1.0	03/10/21 02:29	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/10/21 11:50	
EPA 6020B	Beryllium	0.000067J	mg/L	0.00050	03/10/21 11:50	
EPA 6020B	Boron	0.93	mg/L	0.040	03/10/21 11:50	
EPA 6020B	Cobalt	0.0062	mg/L	0.0050	03/10/21 11:50	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/10/21 11:50	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	03/10/21 11:50	
SM 2450C-2011	Total Dissolved Solids	297	mg/L	10.0	03/06/21 09:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	03/13/21 17:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	03/13/21 17:38	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	03/14/21 12:12	
92525375011	BRGWC-32S					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.98	Std. Units		03/18/21 07:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525375011	BRGWC-32S					
EPA 6010D	Calcium	35.7	mg/L	1.0	03/10/21 07:25	M1
EPA 6020B	Barium	0.024	mg/L	0.0050	03/10/21 11:56	
EPA 6020B	Boron	1.1	mg/L	0.040	03/10/21 11:56	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 11:56	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	03/10/21 11:56	
EPA 6020B	Selenium	0.14	mg/L	0.0050	03/10/21 11:56	
SM 2450C-2011	Total Dissolved Solids	350	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	03/15/21 08:34	
EPA 300.0 Rev 2.1 1993	Sulfate	185	mg/L	4.0	03/15/21 17:30	
92525375012	BRGWC-52I					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	5.87	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	47.5	mg/L	1.0	03/10/21 07:55	
EPA 6020B	Antimony	0.00091J	mg/L	0.0030	03/10/21 16:23	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	03/10/21 16:23	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/10/21 16:23	
EPA 6020B	Boron	1.4	mg/L	0.040	03/10/21 16:23	
EPA 6020B	Lead	0.000042J	mg/L	0.0010	03/10/21 16:23	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	03/10/21 16:23	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/10/21 16:23	
SM 2450C-2011	Total Dissolved Solids	383	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	03/15/21 08:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	03/15/21 08:49	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	2.0	03/15/21 17:45	
92525375013	EB-2					
EPA 6020B	Antimony	0.00029J	mg/L	0.0030	03/10/21 16:29	
92525375014	BRGWC-50					
	Performed by	CUSTOME			03/18/21 07:49	
		R				
	pH	4.34	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	214	mg/L	1.0	03/10/21 08:05	
EPA 6020B	Antimony	0.00092J	mg/L	0.0030	03/10/21 16:35	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/10/21 16:35	
EPA 6020B	Beryllium	0.0059	mg/L	0.00050	03/10/21 16:35	
EPA 6020B	Boron	0.31	mg/L	0.040	03/10/21 16:35	
EPA 6020B	Cadmium	0.019	mg/L	0.00050	03/10/21 16:35	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/10/21 16:35	
EPA 6020B	Cobalt	1.4	mg/L	0.025	03/10/21 16:40	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	03/10/21 16:35	
EPA 6020B	Lithium	0.050	mg/L	0.030	03/10/21 16:35	
EPA 6020B	Selenium	0.0039J	mg/L	0.0050	03/10/21 16:35	
SM 2450C-2011	Total Dissolved Solids	1520	mg/L	100	03/09/21 16:19	
EPA 300.0 Rev 2.1 1993	Chloride	18.9	mg/L	1.0	03/15/21 09:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.60	mg/L	0.10	03/15/21 09:48	
EPA 300.0 Rev 2.1 1993	Sulfate	1250	mg/L	26.0	03/15/21 18:00	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-12S		Lab ID: 92525375001		Collected: 03/02/21 11:50		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.92	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.4	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:21	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:18	7440-38-2	
Barium	0.063	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:18	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:18	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	0.000078	1	03/08/21 08:45	03/08/21 15:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	43.0	mg/L	10.0	10.0	1		03/05/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.7	mg/L	1.0	0.60	1		03/12/21 04:17	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 04:17	16984-48-8	M1
Sulfate	0.51J	mg/L	1.0	0.50	1		03/12/21 04:17	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-12I		Lab ID: 92525375002		Collected: 03/02/21 08:56		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	6.11	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.7	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0095	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:41	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:41	7440-41-7	
Boron	0.0057J	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:41	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:41	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:41	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	0.000078	1	03/08/21 08:45	03/08/21 15:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		03/05/21 15:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.6	mg/L	1.0	0.60	1		03/12/21 05:00	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		03/12/21 05:00	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/12/21 05:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-23S		Lab ID: 92525375003		Collected: 03/02/21 15:55		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.75	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.6	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:55	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	0.00028	1	03/09/21 13:19	03/10/21 10:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:47	7440-38-2	
Barium	0.097	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:47	7440-41-7	
Boron	0.042	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:47	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:47	7439-92-1	
Lithium	0.0093J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:47	7439-98-7	
Selenium	0.0060	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:47	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	0.000078	1	03/08/21 08:45	03/08/21 15:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	105	mg/L	10.0	10.0	1		03/05/21 15:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		03/12/21 05:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 05:14	16984-48-8	
Sulfate	54.0	mg/L	1.0	0.50	1		03/12/21 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-45		Lab ID: 92525375004		Collected: 03/02/21 13:40		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	6.17	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.9	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:53	7440-38-2	
Barium	0.061	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:53	7440-41-7	
Boron	0.044	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:53	7440-42-8	
Cadmium	0.00020J	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:53	7440-47-3	
Cobalt	0.0057	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:53	7439-92-1	
Lithium	0.0043J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:53	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	0.000078	1	03/08/21 08:45	03/08/21 15:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	264	mg/L	10.0	10.0	1		03/05/21 15:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	25.8	mg/L	1.0	0.60	1		03/12/21 05:58	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		03/12/21 05:58	16984-48-8	
Sulfate	98.3	mg/L	2.0	1.0	2		03/12/21 09:54	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-47		Lab ID: 92525375005		Collected: 03/02/21 15:48		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.59	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	353	mg/L	10.0	0.70	10	03/09/21 11:14	03/11/21 17:30	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	0.00028	1	03/09/21 13:19	03/10/21 10:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:58	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:58	7440-41-7	
Boron	0.58	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:58	7440-47-3	
Cobalt	0.00050J	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:58	7439-92-1	
Lithium	0.044	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:58	7439-98-7	
Selenium	0.0028J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:58	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	0.000078	1	03/08/21 08:45	03/08/21 15:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1680	mg/L	100	100	1		03/05/21 15:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.8	mg/L	1.0	0.60	1		03/12/21 06:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 06:12	16984-48-8	
Sulfate	1360	mg/L	29.0	14.5	29		03/12/21 10:08	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-25I		Lab ID: 92525375006		Collected: 03/02/21 17:08		Received: 03/03/21 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	6.10	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	44.1	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:10	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	0.00028	1	03/09/21 13:19	03/10/21 11:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:28	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:28	7440-41-7	
Boron	1.1	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:28	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:28	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:28	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:28	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	0.000078	1	03/08/21 08:45	03/08/21 15:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	280	mg/L	10.0	10.0	1		03/05/21 15:34		
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		03/12/21 06:27	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		03/12/21 06:27	16984-48-8	
Sulfate	139	mg/L	3.0	1.5	3		03/12/21 10:23	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-271		Lab ID: 92525375007		Collected: 03/03/21 14:14		Received: 03/04/21 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.90	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	58.2	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:15	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	0.00028	1	03/09/21 13:19	03/10/21 11:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:33	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:33	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:33	7440-41-7	
Boron	0.91	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:33	7440-47-3	
Cobalt	0.0062	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:33	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:33	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:33	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	0.000078	1	03/08/21 09:00	03/08/21 16:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	288	mg/L	10.0	10.0	1		03/06/21 09:43		
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		03/13/21 16:11	16887-00-6	
Fluoride	0.24	mg/L	0.10	0.050	1		03/13/21 16:11	16984-48-8	
Sulfate	172	mg/L	4.0	2.0	4		03/14/21 10:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-29I		Lab ID: 92525375008		Collected: 03/03/21 16:12		Received: 03/04/21 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	4.46	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	73.3	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:20	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	0.00028	1	03/09/21 13:19	03/10/21 11:39	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:39	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:39	7440-39-3	
Beryllium	0.00094	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:39	7440-41-7	
Boron	1.0	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:39	7440-47-3	
Cobalt	0.0095	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:39	7440-48-4	
Lead	0.00033J	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:39	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:39	7439-98-7	
Selenium	0.0042J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:39	7782-49-2	
Thallium	0.00018J	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:39	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	0.000078	1	03/08/21 09:00	03/08/21 16:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	515	mg/L	10.0	10.0	1		03/06/21 09:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		03/13/21 16:26	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		03/13/21 16:26	16984-48-8	
Sulfate	341	mg/L	7.0	3.5	7		03/14/21 11:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Sample: BRGWC-30I		Lab ID: 92525375009		Collected: 03/03/21 13:06		Received: 03/04/21 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	6.29	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	122	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:24	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	0.00028	1	03/09/21 13:19	03/10/21 11:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:45	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:45	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:45	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:45	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:45	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	0.000078	1	03/08/21 09:00	03/08/21 16:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	690	mg/L	10.0	10.0	1		03/06/21 09:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		03/13/21 17:23	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		03/13/21 17:23	16984-48-8	
Sulfate	371	mg/L	8.0	4.0	8		03/14/21 11:58	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Sample: DUP-1		Lab ID: 92525375010		Collected: 03/03/21 13:06	Received: 03/04/21 08:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	57.0	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:29	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	0.00028	1	03/09/21 13:19	03/10/21 11:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:50	7440-38-2		
Barium	0.016	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:50	7440-39-3		
Beryllium	0.000067J	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:50	7440-41-7		
Boron	0.93	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:50	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:50	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:50	7440-47-3		
Cobalt	0.0062	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:50	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:50	7439-92-1		
Lithium	0.0012J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:50	7439-98-7		
Selenium	0.0027J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:50	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	0.000078	1	03/08/21 09:00	03/08/21 16:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	297	mg/L	10.0	10.0	1		03/06/21 09:44			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	4.6	mg/L	1.0	0.60	1		03/13/21 17:38	16887-00-6		
Fluoride	0.18	mg/L	0.10	0.050	1		03/13/21 17:38	16984-48-8		
Sulfate	172	mg/L	4.0	2.0	4		03/14/21 12:12	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

Sample: BRGWC-32S		Lab ID: 92525375011		Collected: 03/04/21 11:11		Received: 03/05/21 11:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.98	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	35.7	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 07:25	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:56	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:56	7440-41-7	
Boron	1.1	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:56	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:56	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:56	7439-98-7	
Selenium	0.14	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:56	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	0.000078	1	03/08/21 13:30	03/09/21 11:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	350	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.6	mg/L	1.0	0.60	1		03/15/21 08:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 08:34	16984-48-8	
Sulfate	185	mg/L	4.0	2.0	4		03/15/21 17:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-52I		Lab ID: 92525375012		Collected: 03/04/21 12:20		Received: 03/05/21 11:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	5.87	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	47.5	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 07:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00091J	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:23	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:23	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:23	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:23	7440-48-4	
Lead	0.000042J	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:23	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:23	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:23	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	0.000078	1	03/08/21 13:30	03/09/21 11:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	383	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		03/15/21 08:49	16887-00-6	
Fluoride	0.28	mg/L	0.10	0.050	1		03/15/21 08:49	16984-48-8	
Sulfate	114	mg/L	2.0	1.0	2		03/15/21 17:45	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: EB-2		Lab ID: 92525375013		Collected: 03/04/21 12:40	Received: 03/05/21 11:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:00	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00029J	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:29	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:29	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:29	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:29	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:29	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:29	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:29	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:29	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:29	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:29	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:29	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:29	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:29	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	0.000078	1	03/08/21 13:30	03/09/21 11:25	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/21 16:18			
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		03/15/21 09:04	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 09:04	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 09:04	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-50		Lab ID: 92525375014		Collected: 03/04/21 17:07		Received: 03/05/21 11:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/18/21 07:49		
pH	4.34	Std. Units			1		03/18/21 07:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	214	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00092J	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:35	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:35	7440-39-3	
Beryllium	0.0059	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:35	7440-41-7	
Boron	0.31	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:35	7440-42-8	
Cadmium	0.019	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:35	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:35	7440-47-3	
Cobalt	1.4	mg/L	0.025	0.0019	5	03/09/21 13:19	03/10/21 16:40	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:35	7439-92-1	
Lithium	0.050	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:35	7439-98-7	
Selenium	0.0039J	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:35	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	0.000078	1	03/08/21 13:30	03/09/21 11:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1520	mg/L	100	100	1		03/09/21 16:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.9	mg/L	1.0	0.60	1		03/15/21 09:48	16887-00-6	
Fluoride	0.60	mg/L	0.10	0.050	1		03/15/21 09:48	16984-48-8	
Sulfate	1250	mg/L	26.0	13.0	26		03/15/21 18:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: EB-1		Lab ID: 92525375015		Collected: 03/05/21 07:31	Received: 03/05/21 11:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:10	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	0.00028	1	03/09/21 13:19	03/10/21 16:58	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:58	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:58	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:58	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:58	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:58	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:58	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:58	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:58	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:58	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:58	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:58	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:58	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	0.000078	1	03/08/21 13:30	03/09/21 11:42	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/10/21 09:43			
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		03/15/21 10:03	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 10:03	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 10:03	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

QC Batch:	605192	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3188292 Matrix: Water

Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 01:11	

LABORATORY CONTROL SAMPLE: 3188293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188294 3188295

Parameter	Units	92525375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Calcium	mg/L	5.4	1	1	6.6	7.2	113	176	75-125	9	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605231 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3188482 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 07:16	

LABORATORY CONTROL SAMPLE: 3188483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188484 3188485

Parameter	Units	3188484		3188485		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	35.7	1	1	36.7	36.0	100	30	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605225 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010, 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3188456 Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010, 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/10/21 10:07	
Arsenic	mg/L	ND	0.0050	0.00078	03/10/21 10:07	
Barium	mg/L	ND	0.0050	0.00071	03/10/21 10:07	
Beryllium	mg/L	ND	0.00050	0.000046	03/10/21 10:07	
Boron	mg/L	ND	0.040	0.0052	03/10/21 10:07	
Cadmium	mg/L	ND	0.00050	0.00012	03/10/21 10:07	
Chromium	mg/L	ND	0.0050	0.00055	03/10/21 10:07	
Cobalt	mg/L	ND	0.0050	0.00038	03/10/21 10:07	
Lead	mg/L	ND	0.0010	0.000036	03/10/21 10:07	
Lithium	mg/L	ND	0.030	0.00081	03/10/21 10:07	
Molybdenum	mg/L	ND	0.010	0.00069	03/10/21 10:07	
Selenium	mg/L	ND	0.0050	0.0016	03/10/21 10:07	
Thallium	mg/L	ND	0.0010	0.00014	03/10/21 10:07	

LABORATORY CONTROL SAMPLE: 3188457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.095	95	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	0.092	92	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3188458			3188459							
Parameter	Units	92525375001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD		
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	108	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Barium	mg/L	0.063	0.1	0.1	0.17	0.17	104	109	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	ND	1	1	0.91	0.95	91	95	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	0.0021J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.088	0.092	88	92	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

QC Batch:	604663	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3185603 Matrix: Water

Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 14:27	

LABORATORY CONTROL SAMPLE: 3185604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185605 3185606

Parameter	Units	3185605		3185606		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0022	95	88	75-125	7	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604664 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3185623 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 15:49	

LABORATORY CONTROL SAMPLE: 3185624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185625 3185626

Parameter	Units	3185625		3185626		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0019	86	78	75-125	10	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604928	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3187260 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/09/21 10:42	

LABORATORY CONTROL SAMPLE: 3187261

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: 3187262 3187263

Parameter	Units	3187262		3187263		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0019	93	78	75-125	18	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604527 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525375001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604626 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3185317 Matrix: Water
Associated Lab Samples: 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604754 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3186276 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 09:43	

LABORATORY CONTROL SAMPLE: 3186277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	90-111	

SAMPLE DUPLICATE: 3186278

Parameter	Units	92525375007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	288	277	4	10	

SAMPLE DUPLICATE: 3186279

Parameter	Units	92525662002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1010	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604895 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375011, 92525375012

METHOD BLANK: 3186921 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/08/21 11:05	

LABORATORY CONTROL SAMPLE: 3186922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3186923

Parameter	Units	92526103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	311	68	10	D6

SAMPLE DUPLICATE: 3186924

Parameter	Units	92525936007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	878	3	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

QC Batch: 605136

Analysis Method: SM 2450C-2011

QC Batch Method: SM 2450C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525375013, 92525375014

METHOD BLANK: 3187989

Matrix: Water

Associated Lab Samples: 92525375013, 92525375014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/09/21 16:18	

LABORATORY CONTROL SAMPLE: 3187990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3187991

Parameter	Units	92525375013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3187992

Parameter	Units	92524831030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	234	232	1	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605445	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92525375015	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3189630 Matrix: Water
Associated Lab Samples: 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/10/21 09:39	

LABORATORY CONTROL SAMPLE: 3189631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3189632

Parameter	Units	92526563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1350	1390	3	10	

SAMPLE DUPLICATE: 3189633

Parameter	Units	92526568008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	46.0	2	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606038 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3192959 Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/12/21 00:26	
Fluoride	mg/L	ND	0.10	0.050	03/12/21 00:26	
Sulfate	mg/L	ND	1.0	0.50	03/12/21 00:26	

LABORATORY CONTROL SAMPLE: 3192960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192961 3192962

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526606002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	68.3	50	50	100	102	64	67	90-110	2	10	M1	
Fluoride	mg/L	0.34	2.5	2.5	2.5	2.5	85	87	90-110	2	10	M1	
Sulfate	mg/L	95.3	50	50	128	130	65	68	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192963 3192964

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525375001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.7	50	50	47.1	46.1	87	85	90-110	2	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.2	2.2	89	87	90-110	2	10	M1	
Sulfate	mg/L	0.51J	50	50	45.8	44.7	91	88	90-110	2	10	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606452 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3195118 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 11:23	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 11:23	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 11:23	

LABORATORY CONTROL SAMPLE: 3195119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195120 3195121

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	8.3	50	50	50	61.2	62.7	106	109	90-110	2	10	
Fluoride	mg/L	0.34	2.5	2.5	2.5	4.0	4.0	148	147	90-110	1	10	M1
Sulfate	mg/L	225	50	50	50	267	269	84	87	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195122 3195123

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831022 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.9	50	50	50	56.8	57.0	108	108	90-110	0	10	
Fluoride	mg/L	0.71	2.5	2.5	2.5	4.6	4.7	154	158	90-110	2	10	M1
Sulfate	mg/L	143	50	50	50	193	193	100	100	90-110	0	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606497 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3195321 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/21 05:49	
Fluoride	mg/L	ND	0.10	0.050	03/15/21 05:49	
Sulfate	mg/L	ND	1.0	0.50	03/15/21 05:49	

LABORATORY CONTROL SAMPLE: 3195322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	45.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195323 3195324

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525919013 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	5.9	50	50	56.7	55.0	102	98	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	99	97	90-110	3	10		
Sulfate	mg/L	38.9	50	50	90.2	88.6	103	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195325 3195326

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525657006 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	5.8	50	50	55.5	56.0	100	100	90-110	1	10		
Fluoride	mg/L	0.076J	2.5	2.5	2.6	2.7	103	103	90-110	0	10		
Sulfate	mg/L	251	50	50	293	305	83	108	90-110	4	10 M6		

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QUALIFIERS

Project: BRANCH BCD NETWORK

Pace Project No.: 92525375

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525375001	BRGWA-12S				
92525375002	BRGWA-12I				
92525375003	BRGWA-23S				
92525375004	BRGWC-45				
92525375005	BRGWC-47				
92525375006	BRGWC-25I				
92525375007	BRGWC-27I				
92525375008	BRGWC-29I				
92525375009	BRGWC-30I				
92525375011	BRGWC-32S				
92525375012	BRGWC-52I				
92525375014	BRGWC-50				
92525375001	BRGWA-12S	EPA 3010A	605192	EPA 6010D	605250
92525375002	BRGWA-12I	EPA 3010A	605192	EPA 6010D	605250
92525375003	BRGWA-23S	EPA 3010A	605192	EPA 6010D	605250
92525375004	BRGWC-45	EPA 3010A	605192	EPA 6010D	605250
92525375005	BRGWC-47	EPA 3010A	605192	EPA 6010D	605250
92525375006	BRGWC-25I	EPA 3010A	605192	EPA 6010D	605250
92525375007	BRGWC-27I	EPA 3010A	605192	EPA 6010D	605250
92525375008	BRGWC-29I	EPA 3010A	605192	EPA 6010D	605250
92525375009	BRGWC-30I	EPA 3010A	605192	EPA 6010D	605250
92525375010	DUP-1	EPA 3010A	605192	EPA 6010D	605250
92525375011	BRGWC-32S	EPA 3010A	605231	EPA 6010D	605319
92525375012	BRGWC-52I	EPA 3010A	605231	EPA 6010D	605319
92525375013	EB-2	EPA 3010A	605231	EPA 6010D	605319
92525375014	BRGWC-50	EPA 3010A	605231	EPA 6010D	605319
92525375015	EB-1	EPA 3010A	605231	EPA 6010D	605319
92525375001	BRGWA-12S	EPA 3005A	605225	EPA 6020B	605314
92525375002	BRGWA-12I	EPA 3005A	605225	EPA 6020B	605314
92525375003	BRGWA-23S	EPA 3005A	605225	EPA 6020B	605314
92525375004	BRGWC-45	EPA 3005A	605225	EPA 6020B	605314
92525375005	BRGWC-47	EPA 3005A	605225	EPA 6020B	605314
92525375006	BRGWC-25I	EPA 3005A	605225	EPA 6020B	605314
92525375007	BRGWC-27I	EPA 3005A	605225	EPA 6020B	605314
92525375008	BRGWC-29I	EPA 3005A	605225	EPA 6020B	605314
92525375009	BRGWC-30I	EPA 3005A	605225	EPA 6020B	605314
92525375010	DUP-1	EPA 3005A	605225	EPA 6020B	605314
92525375011	BRGWC-32S	EPA 3005A	605225	EPA 6020B	605314
92525375012	BRGWC-52I	EPA 3005A	605225	EPA 6020B	605314
92525375013	EB-2	EPA 3005A	605225	EPA 6020B	605314
92525375014	BRGWC-50	EPA 3005A	605225	EPA 6020B	605314
92525375015	EB-1	EPA 3005A	605225	EPA 6020B	605314
92525375001	BRGWA-12S	EPA 7470A	604663	EPA 7470A	604884
92525375002	BRGWA-12I	EPA 7470A	604663	EPA 7470A	604884
92525375003	BRGWA-23S	EPA 7470A	604663	EPA 7470A	604884
92525375004	BRGWC-45	EPA 7470A	604663	EPA 7470A	604884
92525375005	BRGWC-47	EPA 7470A	604663	EPA 7470A	604884

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525375006	BRGWC-25I	EPA 7470A	604663	EPA 7470A	604884
92525375007	BRGWC-27I	EPA 7470A	604664	EPA 7470A	604885
92525375008	BRGWC-29I	EPA 7470A	604664	EPA 7470A	604885
92525375009	BRGWC-30I	EPA 7470A	604664	EPA 7470A	604885
92525375010	DUP-1	EPA 7470A	604664	EPA 7470A	604885
92525375011	BRGWC-32S	EPA 7470A	604928	EPA 7470A	605029
92525375012	BRGWC-52I	EPA 7470A	604928	EPA 7470A	605029
92525375013	EB-2	EPA 7470A	604928	EPA 7470A	605029
92525375014	BRGWC-50	EPA 7470A	604928	EPA 7470A	605029
92525375015	EB-1	EPA 7470A	604928	EPA 7470A	605029
92525375001	BRGWA-12S	SM 2450C-2011	604527		
92525375002	BRGWA-12I	SM 2450C-2011	604626		
92525375003	BRGWA-23S	SM 2450C-2011	604626		
92525375004	BRGWC-45	SM 2450C-2011	604626		
92525375005	BRGWC-47	SM 2450C-2011	604626		
92525375006	BRGWC-25I	SM 2450C-2011	604626		
92525375007	BRGWC-27I	SM 2450C-2011	604754		
92525375008	BRGWC-29I	SM 2450C-2011	604754		
92525375009	BRGWC-30I	SM 2450C-2011	604754		
92525375010	DUP-1	SM 2450C-2011	604754		
92525375011	BRGWC-32S	SM 2450C-2011	604895		
92525375012	BRGWC-52I	SM 2450C-2011	604895		
92525375013	EB-2	SM 2450C-2011	605136		
92525375014	BRGWC-50	SM 2450C-2011	605136		
92525375015	EB-1	SM 2450C-2011	605445		
92525375001	BRGWA-12S	EPA 300.0 Rev 2.1 1993	606038		
92525375002	BRGWA-12I	EPA 300.0 Rev 2.1 1993	606038		
92525375003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	606038		
92525375004	BRGWC-45	EPA 300.0 Rev 2.1 1993	606038		
92525375005	BRGWC-47	EPA 300.0 Rev 2.1 1993	606038		
92525375006	BRGWC-25I	EPA 300.0 Rev 2.1 1993	606038		
92525375007	BRGWC-27I	EPA 300.0 Rev 2.1 1993	606452		
92525375008	BRGWC-29I	EPA 300.0 Rev 2.1 1993	606452		
92525375009	BRGWC-30I	EPA 300.0 Rev 2.1 1993	606452		
92525375010	DUP-1	EPA 300.0 Rev 2.1 1993	606452		
92525375011	BRGWC-32S	EPA 300.0 Rev 2.1 1993	606497		
92525375012	BRGWC-52I	EPA 300.0 Rev 2.1 1993	606497		
92525375013	EB-2	EPA 300.0 Rev 2.1 1993	606497		
92525375014	BRGWC-50	EPA 300.0 Rev 2.1 1993	606497		
92525375015	EB-1	EPA 300.0 Rev 2.1 1993	606497		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name: GA Power

Project #: **WO# : 92525375**

Courier: Commercial Fed Ex UPS USPS Client Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 3/3/24

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: 3.3 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): 3.3

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>GW</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
North Carolina Quality Office

WO# : 92525375

PM: KLH1

Due Date: 03/17/21

CLIENT: GA-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

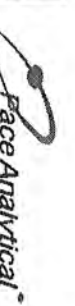
**Bottom half of box is to list number of bottles

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)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2																		3										
2	2																		3										
3	2																		3										
4	2																		3										
5	2																		3										
6	2																		3										
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - ATTN WORKORDER/LABOR LABEL HERE or USE PACE WORKORDER NUMBER OR MTIL LAGH Number Here

Company: Georgia Power - Coal Combustion Residuals
Address: 2490 Maner Road
Atlanta, GA 30339

Report To: Jolu Abraham
Email To: scshivates@southernco.com

Phone: (404) 506-7239
State: Georgia City: Killebrewville Time Zone Collected:
Email: jabraham@southernco.com

Project Name: Plant Branch BCD Network
Project # CR 4th Semi-Annual
Purchase Order #

Collected By (Print): Travis Martinez,
Andrea McClure
Quote #

Turnaround Date Required:
Rush: [] Same Day [] Next Day
[] 2 Day [] 3 Day [] 4 Day [] 5 Day
(Episode Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Table with columns: Customer Sample ID, Matrix #, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, pH, # of Cins. Rows include BR6WA-12S, BR6WA-12I, BR6WA-23S, BR6WC-45, BR6WC-47, BR6WC-25I.

Matrix: Fe, K, Mg, Mn, Na
Type of Ice Used: Wet Blue Dry None
Packaging Material Used:
Redchem sample(s) screened (<500 ppm): Y N NA
Date/Time: 3-3-21/0815
Received By/Company: (Signature)

Container Preservative Type: 0 2 1
Lab Project Manager:
Lab Profile/Line:
Lab Sample Received Checklist:
Custody Seals Present/Intact Y N NA
Collector Signatures Present Y N NA

Table with columns: Metals 6010/6020/7470 - see comments, Total Alkalinity and Bicarbonate/Carbonate Alkalinity, Dissolved Organic Carbon, NOX 353.2, Total Hardness SM 2304B. Rows correspond to sample IDs from the main table.

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID:
Cooler 1 Temp Upon Receipt: 9C
Cooler 1 Therm Corr Factor: 0C
Cooler 1 Corrected Temp: 9C
Comments:
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO
Page: 1 of 1



CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - ATRX WORKORDER/LOGIN LABEL HERE OR LIST PACE WORKORDER NUMBER OR MTIL Log-in Number Here

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road
Atlanta, GA 30339

Report To: Joju Abraham
Email To: scsinvoices@southernco.com

Copy To: Golder
Site Collection Info/Address: Plant Branch

Phone: (404) 505-7239
Email: j.abraham@southernco.com

Project Name: Plant Branch BCD Network
Project # CCR 4th Semi-Annual

Collecting By (print): Travis Martner,
Andreas McCure

Turnaround Date Required:
Quote #

Rush: Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
 Yes No
Immediately Packed on Ice:
 Yes No
Analysis: _____

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID

Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		pH	# of Cns
		Date	Time	Date	Time		
RRGWA-12S	GW	3-2-21	1150			5.92	5
RRGWA-12I	GW	3-2-21	0856			6.11	5
RRGWA-23S	GW	3-2-21	1555			5.75	5
RRGWC-45	GW	3-2-21	1340			6.17	5
RRGWC-47	GW	3-2-21	1548			5.59	5
RRGWC-25I	GW	3-2-21	1708			6.10	5

(Metals): As, B, Ba, Be, Ca, Cd, Co, Cr, Mn, Pb, Sb, Se, Li, Ti, Hg

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Raddem sample(s) screened (<500 cpm): Y N NA

Date/Time: 3-3-21/0815

Received by/Company: (Signature)

Date/Time: Received by/Company: (Signature)

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanoic, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexanoic, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signatures Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
C Strip: _____
Sample pH Acceptable Y N NA
pH Strips: _____ Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY: Lab Sample # / Comments:

Metals 6010/6020/7470 - see comments
TDS
Chloride/Fluoride/Sulfate
Radium 226.228

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: Samples received via: FEDX UPS Client Courier Pace Courier

Date/Time: MTIL LAB USE ONLY

Date/Time: Table #:

Date/Time: Accutum: Template: Prelogin: PM: PB:

LAB Sample Temperature Info: Temp Blank Received Y N NA

Therm ID#: Cooler 1 Temp Upon Receipt: ___oC

Cooler 1 Temp Corr Factor: ___oC

Cooler 1 Corrected Temp: ___oC

Comments: Trip Blank Received: Y N NA
HCL MeOH TSP 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: Non Conformance(s): Page: 1 of 1

September 30, 2020

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 16, 2020 and September 18, 2020. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

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

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92495653001	BRGWA-12S	Water	09/15/20 13:15	09/16/20 09:45
92495653002	BRGWA-12I	Water	09/15/20 11:13	09/16/20 09:45
92495653003	BRGWA-23S	Water	09/15/20 16:10	09/16/20 09:45
92495653004	BRGWC-25I	Water	09/15/20 17:20	09/16/20 09:45
92495653005	BRGWC-29I	Water	09/15/20 17:41	09/16/20 09:45
92495653006	BRGWC-32S	Water	09/16/20 09:16	09/17/20 10:00
92495653007	BRGWC-30I	Water	09/16/20 10:16	09/17/20 10:00
92495653008	BRGWC-47	Water	09/16/20 11:39	09/17/20 10:00
92495653009	BRGWC-45	Water	09/16/20 13:07	09/17/20 10:00
92495653010	BRGWC-27I	Water	09/16/20 14:35	09/17/20 10:00
92495653011	DUP-1	Water	09/16/20 00:00	09/17/20 10:00
92495653012	EB-1	Water	09/16/20 15:11	09/17/20 10:00
92495653013	BRGWC-50	Water	09/17/20 10:24	09/18/20 10:15
92495653014	BRGWC-52I	Water	09/17/20 10:07	09/18/20 10:15
92495653015	FB-2	Water	09/17/20 10:20	09/18/20 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92495653001	BRGWA-12S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653002	BRGWA-12I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653003	BRGWA-23S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653004	BRGWC-25I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653005	BRGWC-29I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653006	BRGWC-32S	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653007	BRGWC-30I	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653008	BRGWC-47	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92495653009	BRGWC-45	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92495653010	BRGWC-27I	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
92495653011	DUP-1	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92495653012	EB-1	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653013	BRGWC-50	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92495653014	BRGWC-52I	EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1
92495653015	FB-2	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	BRJ	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92495653001	BRGWA-12S					
	pH	6.00	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/17/20 17:55	
EPA 6020B	Barium	0.058	mg/L	0.010	09/21/20 15:38	
EPA 6020B	Chromium	0.0025J	mg/L	0.010	09/21/20 15:38	
SM 2450C-2011	Total Dissolved Solids	60.0	mg/L	10.0	09/16/20 14:22	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/18/20 20:02	
92495653002	BRGWA-12I					
	pH	6.01	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	14.5	mg/L	1.0	09/17/20 18:21	
EPA 6020B	Antimony	0.010	mg/L	0.0030	09/21/20 16:01	
EPA 6020B	Barium	0.059	mg/L	0.010	09/21/20 16:01	
EPA 6020B	Boron	0.0071J	mg/L	0.10	09/21/20 16:01	
EPA 6020B	Chromium	0.00096J	mg/L	0.010	09/21/20 16:01	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/21/20 16:01	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	09/16/20 14:22	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/18/20 20:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	09/18/20 20:17	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	09/18/20 20:17	
92495653003	BRGWA-23S					
	pH	5.72	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	10.7	mg/L	1.0	09/17/20 18:25	
EPA 6020B	Antimony	0.00033J	mg/L	0.0030	09/21/20 16:06	
EPA 6020B	Barium	0.086	mg/L	0.010	09/21/20 16:06	
EPA 6020B	Boron	0.033J	mg/L	0.10	09/21/20 16:06	
EPA 6020B	Chromium	0.0019J	mg/L	0.010	09/21/20 16:06	
EPA 6020B	Cobalt	0.00076J	mg/L	0.0050	09/21/20 16:06	
EPA 6020B	Lithium	0.011J	mg/L	0.030	09/21/20 16:06	
EPA 6020B	Selenium	0.0028J	mg/L	0.010	09/21/20 16:06	
SM 2450C-2011	Total Dissolved Solids	109	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	09/23/20 23:18	
EPA 300.0 Rev 2.1 1993	Sulfate	41.5	mg/L	1.0	09/23/20 23:18	
92495653004	BRGWC-25I					
	pH	6.00	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	40.1	mg/L	1.0	09/17/20 18:29	
EPA 6020B	Barium	0.024	mg/L	0.010	09/21/20 16:12	
EPA 6020B	Boron	1.2	mg/L	0.10	09/21/20 16:12	
EPA 6020B	Cobalt	0.0035J	mg/L	0.0050	09/21/20 16:12	
EPA 6020B	Molybdenum	0.00080J	mg/L	0.010	09/21/20 16:12	
SM 2450C-2011	Total Dissolved Solids	272	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	09/18/20 20:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/18/20 20:32	
EPA 300.0 Rev 2.1 1993	Sulfate	126	mg/L	3.0	09/19/20 08:42	
92495653005	BRGWC-29I					
	pH	4.53	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	55.1	mg/L	1.0	09/17/20 18:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92495653005	BRGWC-29I					
EPA 6020B	Barium	0.017	mg/L	0.010	09/21/20 16:18	
EPA 6020B	Beryllium	0.00071J	mg/L	0.0030	09/21/20 16:18	
EPA 6020B	Boron	1.1	mg/L	0.10	09/21/20 16:18	
EPA 6020B	Cobalt	0.0064	mg/L	0.0050	09/21/20 16:18	
EPA 6020B	Lead	0.00029J	mg/L	0.0050	09/21/20 16:18	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	09/21/20 16:18	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	09/21/20 16:18	
SM 2450C-2011	Total Dissolved Solids	281	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	09/18/20 20:46	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	09/18/20 20:46	M1
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	5.0	09/19/20 08:56	
92495653006	BRGWC-32S					
	pH	5.79	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	43.1	mg/L	1.0	09/22/20 20:40	M1
EPA 6020B	Barium	0.024	mg/L	0.010	09/22/20 17:02	
EPA 6020B	Boron	1.4	mg/L	0.10	09/22/20 17:02	
EPA 6020B	Chromium	0.0025J	mg/L	0.010	09/22/20 17:02	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	09/22/20 17:02	
EPA 6020B	Selenium	0.12	mg/L	0.010	09/22/20 17:02	
SM 2450C-2011	Total Dissolved Solids	428	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/19/20 00:00	
EPA 300.0 Rev 2.1 1993	Sulfate	255	mg/L	5.0	09/19/20 09:55	
92495653007	BRGWC-30I					
	pH	6.29	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	106	mg/L	1.0	09/22/20 20:57	
EPA 6020B	Barium	0.022	mg/L	0.010	09/22/20 17:08	
EPA 6020B	Boron	1.7	mg/L	0.10	09/22/20 17:08	
EPA 6020B	Chromium	0.014	mg/L	0.010	09/22/20 17:08	
EPA 6020B	Cobalt	0.00080J	mg/L	0.0050	09/22/20 17:08	
EPA 6020B	Lead	0.00011J	mg/L	0.0050	09/22/20 17:08	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/22/20 17:08	
EPA 6020B	Molybdenum	0.0022J	mg/L	0.010	09/22/20 17:08	
SM 2450C-2011	Total Dissolved Solids	634	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/19/20 15:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/19/20 15:53	
EPA 300.0 Rev 2.1 1993	Sulfate	334	mg/L	7.0	09/20/20 02:34	M6
92495653008	BRGWC-47					
	pH	5.76	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	309	mg/L	10.0	09/23/20 12:15	
EPA 6020B	Antimony	0.00035J	mg/L	0.0030	09/22/20 17:13	B
EPA 6020B	Barium	0.028	mg/L	0.010	09/22/20 17:13	
EPA 6020B	Boron	0.47	mg/L	0.10	09/22/20 17:13	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	09/22/20 17:13	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	09/22/20 17:13	
EPA 6020B	Lithium	0.039	mg/L	0.030	09/22/20 17:13	
EPA 6020B	Selenium	0.0020J	mg/L	0.010	09/22/20 17:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92495653008	BRGWC-47					
SM 2450C-2011	Total Dissolved Solids	2090	mg/L	20.0	09/21/20 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	09/19/20 16:38	
EPA 300.0 Rev 2.1 1993	Sulfate	1360	mg/L	27.0	09/20/20 03:48	
92495653009	BRGWC-45					
	pH	5.27	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	39.7	mg/L	1.0	09/22/20 21:06	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/22/20 17:19	B
EPA 6020B	Barium	0.085	mg/L	0.010	09/22/20 17:19	
EPA 6020B	Boron	0.028J	mg/L	0.10	09/22/20 17:19	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	09/22/20 17:19	
EPA 6020B	Cobalt	0.0049J	mg/L	0.0050	09/22/20 17:19	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	09/22/20 17:19	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/22/20 17:19	
SM 2450C-2011	Total Dissolved Solids	275	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	54.9	mg/L	1.0	09/19/20 16:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	09/19/20 16:53	
EPA 300.0 Rev 2.1 1993	Sulfate	103	mg/L	2.0	09/20/20 04:03	
92495653010	BRGWC-27I					
	pH	5.81	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	62.5	mg/L	1.0	09/22/20 21:10	
EPA 6020B	Barium	0.016	mg/L	0.010	09/22/20 17:25	
EPA 6020B	Beryllium	0.00011J	mg/L	0.0030	09/22/20 17:25	
EPA 6020B	Boron	1.2	mg/L	0.10	09/22/20 17:25	
EPA 6020B	Cobalt	0.0080	mg/L	0.0050	09/22/20 17:25	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/22/20 17:25	
EPA 6020B	Selenium	0.0042J	mg/L	0.010	09/22/20 17:25	
SM 2450C-2011	Total Dissolved Solids	301	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	09/19/20 17:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/19/20 17:08	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	09/20/20 04:17	
92495653011	DUP-1					
EPA 6010D	Calcium	108	mg/L	1.0	09/22/20 21:23	
EPA 6020B	Barium	0.022	mg/L	0.010	09/22/20 17:31	
EPA 6020B	Boron	1.7	mg/L	0.10	09/22/20 17:31	
EPA 6020B	Cobalt	0.00065J	mg/L	0.0050	09/22/20 17:31	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/22/20 17:31	
EPA 6020B	Molybdenum	0.00076J	mg/L	0.010	09/22/20 17:31	
SM 2450C-2011	Total Dissolved Solids	622	mg/L	10.0	09/18/20 09:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/19/20 17:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/19/20 17:23	
EPA 300.0 Rev 2.1 1993	Sulfate	343	mg/L	7.0	09/20/20 04:32	
92495653012	EB-1					
EPA 6020B	Boron	0.0066J	mg/L	0.10	09/22/20 17:36	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92495653013	BRGWC-50					
	pH	4.41	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	206	mg/L	1.0	09/22/20 22:02	
EPA 6020B	Antimony	0.00041J	mg/L	0.0030	09/23/20 20:05	
EPA 6020B	Barium	0.020	mg/L	0.010	09/23/20 20:05	
EPA 6020B	Beryllium	0.0065	mg/L	0.0030	09/24/20 17:33	
EPA 6020B	Boron	0.36	mg/L	0.10	09/24/20 17:33	
EPA 6020B	Cadmium	0.021	mg/L	0.0025	09/23/20 20:05	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	09/23/20 20:05	
EPA 6020B	Cobalt	1.4	mg/L	0.050	09/24/20 17:07	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	09/23/20 20:05	
EPA 6020B	Lithium	0.052	mg/L	0.030	09/24/20 17:33	
SM 2450C-2011	Total Dissolved Solids	1910	mg/L	50.0	09/24/20 11:49	D6,H1
EPA 300.0 Rev 2.1 1993	Chloride	20.1	mg/L	1.0	09/22/20 01:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.46	mg/L	0.10	09/22/20 01:20	
EPA 300.0 Rev 2.1 1993	Sulfate	1330	mg/L	26.0	09/22/20 14:58	
92495653014	BRGWC-52I					
	pH	6.12	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	35.4	mg/L	1.0	09/22/20 22:15	
EPA 6020B	Barium	0.020	mg/L	0.010	09/23/20 20:10	
EPA 6020B	Boron	1.9	mg/L	0.10	09/24/20 14:08	
EPA 6020B	Cobalt	0.00046J	mg/L	0.0050	09/23/20 20:10	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	09/24/20 14:08	
EPA 6020B	Molybdenum	0.00070J	mg/L	0.010	09/23/20 20:10	
SM 2450C-2011	Total Dissolved Solids	329	mg/L	10.0	09/21/20 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/22/20 02:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/22/20 02:04	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	09/22/20 15:13	
92495653015	FB-2					
EPA 6020B	Boron	0.0097J	mg/L	0.10	09/24/20 14:14	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Sample: BRGWA-12S		Lab ID: 92495653001		Collected: 09/15/20 13:15		Received: 09/16/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.00	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.7	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 17:55	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	0.00028	1	09/16/20 18:16	09/21/20 15:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 15:38	7440-38-2	
Barium	0.058	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 15:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 15:38	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 15:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 15:38	7440-43-9	
Chromium	0.0025J	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 15:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 15:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 15:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 15:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 15:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 15:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 15:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		09/16/20 14:22		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		09/18/20 20:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/20 20:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/18/20 20:02	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWA-12I		Lab ID: 92495653002		Collected: 09/15/20 11:13		Received: 09/16/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.01	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.5	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.010	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:01	7440-38-2	
Barium	0.059	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:01	7440-41-7	
Boron	0.0071J	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:01	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:01	7440-43-9	
Chromium	0.00096J	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:01	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	95.0	mg/L	10.0	10.0	1		09/16/20 14:22		
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		09/18/20 20:17	16887-00-6	
Fluoride	0.062J	mg/L	0.10	0.050	1		09/18/20 20:17	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		09/18/20 20:17	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWA-23S		Lab ID: 92495653003		Collected: 09/15/20 16:10		Received: 09/16/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.72	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	10.7	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00033J	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:06	7440-38-2	
Barium	0.086	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:06	7440-41-7	
Boron	0.033J	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:06	7440-43-9	
Chromium	0.0019J	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:06	7440-47-3	
Cobalt	0.00076J	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:06	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:06	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:06	7439-98-7	
Selenium	0.0028J	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	109	mg/L	10.0	10.0	1		09/16/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		09/23/20 23:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/20 23:18	16984-48-8	
Sulfate	41.5	mg/L	1.0	0.50	1		09/23/20 23:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-25I		Lab ID: 92495653004		Collected: 09/15/20 17:20		Received: 09/16/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.00	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	40.1	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:29	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	0.00028	1	09/16/20 18:16	09/21/20 16:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:12	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:12	7440-41-7	
Boron	1.2	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:12	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:12	7440-47-3	
Cobalt	0.0035J	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:12	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:12	7439-93-2	
Molybdenum	0.00080J	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:12	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	272	mg/L	10.0	10.0	1		09/16/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		09/18/20 20:32	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		09/18/20 20:32	16984-48-8	
Sulfate	126	mg/L	3.0	1.5	3		09/19/20 08:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-29I		Lab ID: 92495653005		Collected: 09/15/20 17:41		Received: 09/16/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.53	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.1	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:34	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	0.00028	1	09/16/20 18:16	09/21/20 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:18	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:18	7440-39-3	
Beryllium	0.00071J	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:18	7440-41-7	
Boron	1.1	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:18	7440-47-3	
Cobalt	0.0064	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:18	7440-48-4	
Lead	0.00029J	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:18	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:18	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	281	mg/L	10.0	10.0	1		09/16/20 14:23		
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		09/18/20 20:46	16887-00-6	M1
Fluoride	0.057J	mg/L	0.10	0.050	1		09/18/20 20:46	16984-48-8	M1
Sulfate	241	mg/L	5.0	2.5	5		09/19/20 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-32S		Lab ID: 92495653006		Collected: 09/16/20 09:16		Received: 09/17/20 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.79	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	43.1	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 20:40	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:02	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:02	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:02	7440-41-7	
Boron	1.4	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:02	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:02	7440-43-9	
Chromium	0.0025J	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:02	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:02	7439-98-7	
Selenium	0.12	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	428	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		09/19/20 00:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 00:00	16984-48-8	
Sulfate	255	mg/L	5.0	2.5	5		09/19/20 09:55	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-30I		Lab ID: 92495653007		Collected: 09/16/20 10:16	Received: 09/17/20 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.29	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	106	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 20:57	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	0.00028	1	09/18/20 11:00	09/22/20 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:08	7440-38-2	
Barium	0.022	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:08	7440-41-7	
Boron	1.7	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:08	7440-43-9	
Chromium	0.014	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:08	7440-47-3	
Cobalt	0.00080J	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:08	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:08	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:08	7439-93-2	
Molybdenum	0.0022J	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:08	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 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	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	634	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		09/19/20 15:53	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		09/19/20 15:53	16984-48-8	
Sulfate	334	mg/L	7.0	3.5	7		09/20/20 02:34	14808-79-8	M6

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-47		Lab ID: 92495653008		Collected: 09/16/20 11:39		Received: 09/17/20 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.76	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	309	mg/L	10.0	0.70	10	09/22/20 14:15	09/23/20 12:15	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00035J	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:13	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:13	7440-38-2	
Barium	0.028	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:13	7440-41-7	
Boron	0.47	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:13	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:13	7440-47-3	
Cobalt	0.00053J	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:13	7440-48-4	
Lead	0.000066J	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:13	7439-92-1	
Lithium	0.039	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:13	7439-98-7	
Selenium	0.0020J	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2090	mg/L	20.0	20.0	1		09/21/20 16:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		09/19/20 16:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 16:38	16984-48-8	
Sulfate	1360	mg/L	27.0	13.5	27		09/20/20 03:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Sample: BRGWC-45		Lab ID: 92495653009		Collected: 09/16/20 13:07		Received: 09/17/20 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.27	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	39.7	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0012J	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:19	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:19	7440-38-2	
Barium	0.085	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:19	7440-41-7	
Boron	0.028J	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:19	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:19	7440-47-3	
Cobalt	0.0049J	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:19	7440-48-4	
Lead	0.000053J	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:19	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 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	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	275	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	54.9	mg/L	1.0	0.60	1		09/19/20 16:53	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		09/19/20 16:53	16984-48-8	
Sulfate	103	mg/L	2.0	1.0	2		09/20/20 04:03	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Sample: BRGWC-271		Lab ID: 92495653010		Collected: 09/16/20 14:35		Received: 09/17/20 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.81	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	62.5	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:10	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	0.00028	1	09/18/20 11:00	09/22/20 17:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:25	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:25	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:25	7440-41-7	
Boron	1.2	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:25	7440-47-3	
Cobalt	0.0080	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:25	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:25	7439-98-7	
Selenium	0.0042J	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	301	mg/L	10.0	10.0	1		09/17/20 15:20		
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		09/19/20 17:08	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		09/19/20 17:08	16984-48-8	
Sulfate	190	mg/L	4.0	2.0	4		09/20/20 04:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: DUP-1		Lab ID: 92495653011		Collected: 09/16/20 00:00	Received: 09/17/20 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	108	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:23	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	0.00028	1	09/18/20 11:00	09/22/20 17:31	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:31	7440-38-2		
Barium	0.022	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:31	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:31	7440-41-7		
Boron	1.7	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:31	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:31	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:31	7440-47-3		
Cobalt	0.00065J	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:31	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:31	7439-92-1		
Lithium	0.016J	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:31	7439-93-2		
Molybdenum	0.00076J	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:31	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:31	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:31	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:47	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	622	mg/L	10.0	10.0	1		09/18/20 09:58			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	4.4	mg/L	1.0	0.60	1		09/19/20 17:23	16887-00-6		
Fluoride	0.13	mg/L	0.10	0.050	1		09/19/20 17:23	16984-48-8		
Sulfate	343	mg/L	7.0	3.5	7		09/20/20 04:32	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: EB-1		Lab ID: 92495653012		Collected: 09/16/20 15:11	Received: 09/17/20 10:00	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:27	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	0.00028	1	09/18/20 11:00	09/22/20 17:36	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:36	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:36	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:36	7440-41-7		
Boron	0.0066J	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:36	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:36	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:36	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:36	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:36	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:36	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:36	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:36	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:36	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:49	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/18/20 09:58			
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		09/19/20 17:37	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 17:37	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/19/20 17:37	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-50		Lab ID: 92495653013		Collected: 09/17/20 10:24		Received: 09/18/20 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.41	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	206	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00041J	mg/L	0.0030	0.00028	1	09/23/20 13:53	09/23/20 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:05	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:05	7440-39-3	
Beryllium	0.0065	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 17:33	7440-41-7	
Boron	0.36	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 17:33	7440-42-8	
Cadmium	0.021	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:05	7440-43-9	
Chromium	0.00098J	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:05	7440-47-3	
Cobalt	1.4	mg/L	0.050	0.0038	10	09/23/20 13:53	09/24/20 17:07	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:05	7439-92-1	
Lithium	0.052	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1910	mg/L	50.0	50.0	1		09/24/20 11:49		D6,H1
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.1	mg/L	1.0	0.60	1		09/22/20 01:20	16887-00-6	
Fluoride	0.46	mg/L	0.10	0.050	1		09/22/20 01:20	16984-48-8	
Sulfate	1330	mg/L	26.0	13.0	26		09/22/20 14:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-52I		Lab ID: 92495653014		Collected: 09/17/20 10:07		Received: 09/18/20 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.12	Std. Units			1		09/22/20 12:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	35.4	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:15	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	0.00028	1	09/23/20 13:53	09/23/20 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:10	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 14:08	7440-41-7	
Boron	1.9	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 14:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:10	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:10	7440-47-3	
Cobalt	0.00046J	mg/L	0.0050	0.00038	1	09/23/20 13:53	09/23/20 20:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:10	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 14:08	7439-93-2	
Molybdenum	0.00070J	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	329	mg/L	10.0	10.0	1		09/21/20 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		09/22/20 02:04	16887-00-6	
Fluoride	0.074J	mg/L	0.10	0.050	1		09/22/20 02:04	16984-48-8	
Sulfate	165	mg/L	4.0	2.0	4		09/22/20 15:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: FB-2		Lab ID: 92495653015		Collected: 09/17/20 10:20	Received: 09/18/20 10:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:20	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	0.00028	1	09/23/20 13:53	09/23/20 20:16	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:16	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:16	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 14:14	7440-41-7		
Boron	0.0097J	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 14:14	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:16	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:16	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/23/20 13:53	09/23/20 20:16	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:16	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 14:14	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:16	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:16	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:16	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:30	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/20 16:30			
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		09/22/20 02:19	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/22/20 02:19	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/22/20 02:19	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch:	566871	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3003868 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/17/20 17:42	

LABORATORY CONTROL SAMPLE: 3003869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003870 3003871

Parameter	Units	3003870		3003871		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	5.7	1	1	6.6	6.6	89	87	75-125	0	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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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch: 568100 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012, 92495653013, 92495653014, 92495653015

METHOD BLANK: 3010230 Matrix: Water
 Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012, 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/22/20 20:31	

LABORATORY CONTROL SAMPLE: 3010231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010232 3010233

Parameter	Units	92495653006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	43.1	1	1	44.0	43.4	83	22	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch: 566966

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3004543

Matrix: Water

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/21/20 15:26	
Arsenic	mg/L	ND	0.0050	0.00078	09/21/20 15:26	
Barium	mg/L	ND	0.010	0.00071	09/21/20 15:26	
Beryllium	mg/L	ND	0.0030	0.000046	09/21/20 15:26	
Boron	mg/L	ND	0.10	0.0052	09/21/20 15:26	
Cadmium	mg/L	ND	0.0025	0.00012	09/21/20 15:26	
Chromium	mg/L	ND	0.010	0.00055	09/21/20 15:26	
Cobalt	mg/L	ND	0.0050	0.00038	09/21/20 15:26	
Lead	mg/L	ND	0.0050	0.000036	09/21/20 15:26	
Lithium	mg/L	ND	0.030	0.00081	09/21/20 15:26	
Molybdenum	mg/L	ND	0.010	0.00069	09/21/20 15:26	
Selenium	mg/L	ND	0.010	0.0016	09/21/20 15:26	
Thallium	mg/L	ND	0.0010	0.00014	09/21/20 15:26	

LABORATORY CONTROL SAMPLE: 3004544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	105	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	105	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	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3004545

3004546

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495653001 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20		

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Parameter	Units	3004545		3004546		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.058	0.1	0.1	0.16	0.15	99	95	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.096	102	96	75-125	6	20		
Boron	mg/L	ND	1	1	1.0	0.98	103	97	75-125	5	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.096	100	96	75-125	4	20		
Chromium	mg/L	0.0025J	0.1	0.1	0.11	0.099	103	96	75-125	7	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	4	20		

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567397 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3006748 Matrix: Water
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00033J	0.0030	0.00028	09/22/20 15:42	
Arsenic	mg/L	ND	0.0050	0.00078	09/22/20 15:42	
Barium	mg/L	ND	0.010	0.00071	09/22/20 15:42	
Beryllium	mg/L	ND	0.0030	0.000046	09/22/20 15:42	
Boron	mg/L	ND	0.10	0.0052	09/22/20 15:42	
Cadmium	mg/L	ND	0.0025	0.00012	09/22/20 15:42	
Chromium	mg/L	ND	0.010	0.00055	09/22/20 15:42	
Cobalt	mg/L	ND	0.0050	0.00038	09/22/20 15:42	
Lead	mg/L	ND	0.0050	0.000036	09/22/20 15:42	
Lithium	mg/L	ND	0.030	0.00081	09/22/20 15:42	
Molybdenum	mg/L	ND	0.010	0.00069	09/22/20 15:42	
Selenium	mg/L	ND	0.010	0.0016	09/22/20 15:42	
Thallium	mg/L	ND	0.0010	0.00014	09/22/20 15:42	

LABORATORY CONTROL SAMPLE: 3006749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006750 3006751

Parameter	Units	92495870002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Parameter	Units	3006750		3006751		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495870002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	97	99	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Boron	mg/L	0.0053J	1	1	1.0	1.0	100	101	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	1	20		
Chromium	mg/L	0.00086J	0.1	0.1	0.10	0.10	103	104	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.096	0.096	95	96	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568417 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3011604 Matrix: Water
Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/23/20 18:33	
Arsenic	mg/L	ND	0.0050	0.00078	09/23/20 18:33	
Barium	mg/L	ND	0.010	0.00071	09/23/20 18:33	
Beryllium	mg/L	ND	0.0030	0.000046	09/23/20 18:33	
Boron	mg/L	ND	0.10	0.0052	09/23/20 18:33	
Cadmium	mg/L	ND	0.0025	0.00012	09/23/20 18:33	
Chromium	mg/L	ND	0.010	0.00055	09/23/20 18:33	
Cobalt	mg/L	ND	0.0050	0.00038	09/23/20 18:33	
Lead	mg/L	ND	0.0050	0.000036	09/23/20 18:33	
Lithium	mg/L	ND	0.030	0.00081	09/23/20 18:33	
Molybdenum	mg/L	ND	0.010	0.00069	09/23/20 18:33	
Selenium	mg/L	ND	0.010	0.0016	09/23/20 18:33	
Thallium	mg/L	ND	0.0010	0.00014	09/23/20 18:33	

LABORATORY CONTROL SAMPLE: 3011605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011606 3011607

Parameter	Units	92495876001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011606		3011607		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495876001 Result	MS Spike Conc.	MSD Spike Conc.									
Barium	mg/L	0.030	0.1	0.1	0.13	0.13	96	95	75-125	1	20		
Beryllium	mg/L	0.00012J	0.1	0.1	0.098	0.095	98	95	75-125	2	20		
Boron	mg/L	0.0065J	1	1	1.0	0.98	100	97	75-125	3	20		
Cadmium	mg/L	0.00016J	0.1	0.1	0.10	0.098	100	98	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20		
Lead	mg/L	0.00065J	0.1	0.1	0.098	0.099	97	99	75-125	2	20		
Lithium	mg/L	0.0014J	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	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: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch: 567375

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005, 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3006615

Matrix: Water

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005, 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/18/20 14:02	

LABORATORY CONTROL SAMPLE: 3006616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006617 3006618

Parameter	Units	3006617		3006618		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	100	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch: 568004

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3009596

Matrix: Water

Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/23/20 08:40	

LABORATORY CONTROL SAMPLE: 3009597

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: 3009598 3009599

Parameter	Units	3009598		3009599		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	98	94	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 566772 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3003519 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/20 14:20	

LABORATORY CONTROL SAMPLE: 3003520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	84-108	

SAMPLE DUPLICATE: 3003521

Parameter	Units	92495054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	90.0	94.0	4	10	

SAMPLE DUPLICATE: 3003522

Parameter	Units	92495047012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567147 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653006, 92495653007, 92495653009, 92495653010

METHOD BLANK: 3005362 Matrix: Water
Associated Lab Samples: 92495653006, 92495653007, 92495653009, 92495653010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/17/20 15:18	

LABORATORY CONTROL SAMPLE: 3005363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	84-108	

SAMPLE DUPLICATE: 3005364

Parameter	Units	92495870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3005365

Parameter	Units	92495900007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1890	1860	2	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch: 567372	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653011, 92495653012

METHOD BLANK: 3006601 Matrix: Water

Associated Lab Samples: 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/18/20 09:58	

LABORATORY CONTROL SAMPLE: 3006602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	84-108	

SAMPLE DUPLICATE: 3006603

Parameter	Units	92495653011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	622	654	5	10	

SAMPLE DUPLICATE: 3006604

Parameter	Units	92495900008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1250	3	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

QC Batch:	567882	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653008, 92495653014, 92495653015

METHOD BLANK: 3009251 Matrix: Water

Associated Lab Samples: 92495653008, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/20 16:27	

LABORATORY CONTROL SAMPLE: 3009252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	412	103	84-108	

SAMPLE DUPLICATE: 3009253

Parameter	Units	92495653008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	2130	2	10	

SAMPLE DUPLICATE: 3009254

Parameter	Units	92495870011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	18.0	33	10	D6

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 569364	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92495653013

METHOD BLANK: 3016819 Matrix: Water
Associated Lab Samples: 92495653013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/24/20 11:49	

LABORATORY CONTROL SAMPLE: 3016820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	84-108	

SAMPLE DUPLICATE: 3016821

Parameter	Units	92495653013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1910	2160	13	10	D6,H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567529 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653001, 92495653002, 92495653004, 92495653005, 92495653006

METHOD BLANK: 3007534 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653004, 92495653005, 92495653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/18/20 16:46	
Fluoride	mg/L	ND	0.10	0.050	09/18/20 16:46	
Sulfate	mg/L	ND	1.0	0.50	09/18/20 16:46	

LABORATORY CONTROL SAMPLE: 3007535

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	106	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007536 3007537

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496029001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	13.6	50	50	68.1	69.2	109	111	90-110	2	10	M1	
Fluoride	mg/L	0.10	2.5	2.5	2.8	2.9	109	112	90-110	3	10	M1	
Sulfate	mg/L	7.4	50	50	62.2	63.3	110	112	90-110	2	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007538 3007539

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495653005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.5	50	50	58.5	62.8	106	115	90-110	7	10	M1	
Fluoride	mg/L	0.057J	2.5	2.5	2.8	3.0	108	116	90-110	7	10	M1	
Sulfate	mg/L	241	50	50	287	291	91	100	90-110	2	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567607 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3008004 Matrix: Water
Associated Lab Samples: 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/20 15:23	
Fluoride	mg/L	ND	0.10	0.050	09/19/20 15:23	
Sulfate	mg/L	ND	1.0	0.50	09/19/20 15:23	

LABORATORY CONTROL SAMPLE: 3008005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008006 3008007

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495653007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.4	50	50	57.4	58.2	106	108	90-110	1	10		
Fluoride	mg/L	0.13	2.5	2.5	2.8	2.8	107	109	90-110	1	10		
Sulfate	mg/L	334	50	50	389	385	111	103	90-110	1	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008008 3008009

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495964005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.9	50	50	61.3	62.0	107	108	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	108	90-110	1	10		
Sulfate	mg/L	256	50	50	298	299	85	87	90-110	0	10	M6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567942 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3009478 Matrix: Water
Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/21/20 23:05	
Fluoride	mg/L	ND	0.10	0.050	09/21/20 23:05	
Sulfate	mg/L	ND	1.0	0.50	09/21/20 23:05	

LABORATORY CONTROL SAMPLE: 3009479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009480 3009481

Parameter	Units	92495047013		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	1.7	50	50	53.8	53.6	104	104	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	103	90-110	0	10	
Sulfate	mg/L	8.6	50	50	60.9	60.8	105	104	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009482 3009483

Parameter	Units	92495870010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	0.97J	50	50	53.1	53.5	104	105	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	105	90-110	2	10	
Sulfate	mg/L	ND	50	50	52.3	52.7	104	105	105	90-110	1	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568234 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92495653003

METHOD BLANK: 3010905 Matrix: Water
Associated Lab Samples: 92495653003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/23/20 17:04	
Fluoride	mg/L	ND	0.10	0.050	09/23/20 17:04	
Sulfate	mg/L	ND	1.0	0.50	09/23/20 17:04	

LABORATORY CONTROL SAMPLE: 3010906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010909 3010910

Parameter	Units	92496730002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	364	50	50	389	389	249	249	90-110	0	10		
Fluoride	mg/L	0.60	2.5	2.5	3.3	3.4	110	110	90-110	1	10		
Sulfate	mg/L	3.0	50	50	57.3	57.3	109	109	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011115 3011116

Parameter	Units	92496730004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	109	50	50	158	158	97	97	90-110	0	10		
Fluoride	mg/L	0.43	2.5	2.5	3.1	3.2	108	109	90-110	1	10		
Sulfate	mg/L	79.4	50	50	120	120	81	81	90-110	0	10 M1		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRANCH BCD NETWORK

Pace Project No.: 92495653

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.

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.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92495653001	BRGWA-12S				
92495653002	BRGWA-12I				
92495653003	BRGWA-23S				
92495653004	BRGWC-25I				
92495653005	BRGWC-29I				
92495653006	BRGWC-32S				
92495653007	BRGWC-30I				
92495653008	BRGWC-47				
92495653009	BRGWC-45				
92495653010	BRGWC-27I				
92495653013	BRGWC-50				
92495653014	BRGWC-52I				
92495653001	BRGWA-12S	EPA 3010A	566871	EPA 6010D	566908
92495653002	BRGWA-12I	EPA 3010A	566871	EPA 6010D	566908
92495653003	BRGWA-23S	EPA 3010A	566871	EPA 6010D	566908
92495653004	BRGWC-25I	EPA 3010A	566871	EPA 6010D	566908
92495653005	BRGWC-29I	EPA 3010A	566871	EPA 6010D	566908
92495653006	BRGWC-32S	EPA 3010A	568100	EPA 6010D	568125
92495653007	BRGWC-30I	EPA 3010A	568100	EPA 6010D	568125
92495653008	BRGWC-47	EPA 3010A	568100	EPA 6010D	568125
92495653009	BRGWC-45	EPA 3010A	568100	EPA 6010D	568125
92495653010	BRGWC-27I	EPA 3010A	568100	EPA 6010D	568125
92495653011	DUP-1	EPA 3010A	568100	EPA 6010D	568125
92495653012	EB-1	EPA 3010A	568100	EPA 6010D	568125
92495653013	BRGWC-50	EPA 3010A	568100	EPA 6010D	568125
92495653014	BRGWC-52I	EPA 3010A	568100	EPA 6010D	568125
92495653015	FB-2	EPA 3010A	568100	EPA 6010D	568125
92495653001	BRGWA-12S	EPA 3005A	566966	EPA 6020B	566971
92495653002	BRGWA-12I	EPA 3005A	566966	EPA 6020B	566971
92495653003	BRGWA-23S	EPA 3005A	566966	EPA 6020B	566971
92495653004	BRGWC-25I	EPA 3005A	566966	EPA 6020B	566971
92495653005	BRGWC-29I	EPA 3005A	566966	EPA 6020B	566971
92495653006	BRGWC-32S	EPA 3005A	567397	EPA 6020B	567512
92495653007	BRGWC-30I	EPA 3005A	567397	EPA 6020B	567512
92495653008	BRGWC-47	EPA 3005A	567397	EPA 6020B	567512
92495653009	BRGWC-45	EPA 3005A	567397	EPA 6020B	567512
92495653010	BRGWC-27I	EPA 3005A	567397	EPA 6020B	567512
92495653011	DUP-1	EPA 3005A	567397	EPA 6020B	567512
92495653012	EB-1	EPA 3005A	567397	EPA 6020B	567512
92495653013	BRGWC-50	EPA 3005A	568417	EPA 6020B	568454
92495653014	BRGWC-52I	EPA 3005A	568417	EPA 6020B	568454
92495653015	FB-2	EPA 3005A	568417	EPA 6020B	568454
92495653001	BRGWA-12S	EPA 7470A	567375	EPA 7470A	567456
92495653002	BRGWA-12I	EPA 7470A	567375	EPA 7470A	567456
92495653003	BRGWA-23S	EPA 7470A	567375	EPA 7470A	567456
92495653004	BRGWC-25I	EPA 7470A	567375	EPA 7470A	567456

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92495653005	BRGWC-29I	EPA 7470A	567375	EPA 7470A	567456
92495653006	BRGWC-32S	EPA 7470A	567375	EPA 7470A	567456
92495653007	BRGWC-30I	EPA 7470A	567375	EPA 7470A	567456
92495653008	BRGWC-47	EPA 7470A	567375	EPA 7470A	567456
92495653009	BRGWC-45	EPA 7470A	567375	EPA 7470A	567456
92495653010	BRGWC-27I	EPA 7470A	567375	EPA 7470A	567456
92495653011	DUP-1	EPA 7470A	567375	EPA 7470A	567456
92495653012	EB-1	EPA 7470A	567375	EPA 7470A	567456
92495653013	BRGWC-50	EPA 7470A	568004	EPA 7470A	568115
92495653014	BRGWC-52I	EPA 7470A	568004	EPA 7470A	568115
92495653015	FB-2	EPA 7470A	568004	EPA 7470A	568115
92495653001	BRGWA-12S	SM 2450C-2011	566772		
92495653002	BRGWA-12I	SM 2450C-2011	566772		
92495653003	BRGWA-23S	SM 2450C-2011	566772		
92495653004	BRGWC-25I	SM 2450C-2011	566772		
92495653005	BRGWC-29I	SM 2450C-2011	566772		
92495653006	BRGWC-32S	SM 2450C-2011	567147		
92495653007	BRGWC-30I	SM 2450C-2011	567147		
92495653008	BRGWC-47	SM 2450C-2011	567882		
92495653009	BRGWC-45	SM 2450C-2011	567147		
92495653010	BRGWC-27I	SM 2450C-2011	567147		
92495653011	DUP-1	SM 2450C-2011	567372		
92495653012	EB-1	SM 2450C-2011	567372		
92495653013	BRGWC-50	SM 2450C-2011	569364		
92495653014	BRGWC-52I	SM 2450C-2011	567882		
92495653015	FB-2	SM 2450C-2011	567882		
92495653001	BRGWA-12S	EPA 300.0 Rev 2.1 1993	567529		
92495653002	BRGWA-12I	EPA 300.0 Rev 2.1 1993	567529		
92495653003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	568234		
92495653004	BRGWC-25I	EPA 300.0 Rev 2.1 1993	567529		
92495653005	BRGWC-29I	EPA 300.0 Rev 2.1 1993	567529		
92495653006	BRGWC-32S	EPA 300.0 Rev 2.1 1993	567529		
92495653007	BRGWC-30I	EPA 300.0 Rev 2.1 1993	567607		
92495653008	BRGWC-47	EPA 300.0 Rev 2.1 1993	567607		
92495653009	BRGWC-45	EPA 300.0 Rev 2.1 1993	567607		
92495653010	BRGWC-27I	EPA 300.0 Rev 2.1 1993	567607		
92495653011	DUP-1	EPA 300.0 Rev 2.1 1993	567607		
92495653012	EB-1	EPA 300.0 Rev 2.1 1993	567607		
92495653013	BRGWC-50	EPA 300.0 Rev 2.1 1993	567942		
92495653014	BRGWC-52I	EPA 300.0 Rev 2.1 1993	567942		
92495653015	FB-2	EPA 300.0 Rev 2.1 1993	567942		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA Power

WO#: **92495653**



Courier: Fed Ex UPS USPS Client Commercial Pace Oth

Tracking #: _____ Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 2/4 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: 9/16/2004
Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

Project #

WO# : 92495653

PM: KLH1

Due Date: 09/30/20

CLIENT: GA-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 bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)	BP9A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Sterilization vials (N/A)	
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

BEIN

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 DEHNR Certification C
Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Attach Workorder/Login Label Here or List Pace Workorder Number or
MTIL Log-In Number Here

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Report To: Jolu Abraham
 Copy To: Golder

Chain of Custody is a LEGAL DOCUMENT - Complete a relevant item
 Billing Information:
 Email To: scinnoces@southernco.com
 Site Collection Info/Address: Plant Branch

Phone: (404) 506-7239
 Email: j.abraham@southernco.com
 Project Name: Plant Branch BCD Network
 Project # CCR 3rd Semi-Annual
 Collected By (Print): Travis Martinez, Andrea McClure
 Quote #
 Turnaround Date Required
 Rush: Same Day | Next Day | 2 Day | 3 Day | 4 Day | 5 Day
 (Expedite Charges Apply)
 Analysis: Yes | No
 Field Filtered (if applicable): Yes | No
 State: Georgia City: Milledgeville Time Zone Collected: PT | MT | CT | ET
 Pace Project Manager: kevin.herring@pacelab.com
 Immediately Packed on Ice: Yes | No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SI), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite		Composite End		pH	# of Cns
			Date	Time	Date	Time		
BRGWA-12S	GW	G	9-15-2020	1315			6.00	5
BRGWA-12I	GW	G	9-15-2020	1113			6.01	5
BRGWA-23S	GW	G	9-15-2020	1610			5.72	5
BRGWC-25I	GW	G	9-15-2020	1720			6.00	7
BRGWC-29I	GW	G	9-15-2020	1741			4.53	5

Metals 6010/6020/7470 - see comments

TDS

Chloride/Fluoride/Sulfate

Radium 226/228

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Corrected Volume Y N NA

Sufficient Volume Y N NA

VDA - Headspace Acceptable Y N NA

USA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Residual Chromium Present Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

Lab USE ONLY: Lab Sample # / Comments: 02465653

Container Preservative Type: 1
 Lab Project Manager:

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) heparin, (a) ascorbic acid, (b) ammonium sulfate, (c) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Corrected Volume Y N NA

Sufficient Volume Y N NA

VDA - Headspace Acceptable Y N NA

USA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Residual Chromium Present Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Corrected Volume Y N NA

Sufficient Volume Y N NA

VDA - Headspace Acceptable Y N NA

USA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Residual Chromium Present Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Corrected Volume Y N NA

Sufficient Volume Y N NA

VDA - Headspace Acceptable Y N NA

USA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Residual Chromium Present Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Corrected Volume Y N NA

Sufficient Volume Y N NA

VDA - Headspace Acceptable Y N NA

USA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Residual Chromium Present Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

September 15, 2020

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 19, 2020 and August 21, 2020. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta

Brian Steele, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
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
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92491393001	BRGWA-12I	Water	08/18/20 13:05	08/19/20 10:10
92491393002	BRGWA-12S	Water	08/18/20 16:25	08/19/20 10:10
92491393003	BRGWA-23S	Water	08/18/20 15:28	08/19/20 10:10
92491393004	BRGWC-25I	Water	08/19/20 09:50	08/20/20 10:03
92491393005	BRGWC-29I	Water	08/19/20 10:50	08/20/20 10:03
92491393006	BRGWC-27I	Water	08/19/20 12:05	08/20/20 10:03
92491393007	BRGWC-32S	Water	08/19/20 13:20	08/20/20 10:03
92491393008	BRGWC-30I	Water	08/19/20 15:05	08/20/20 10:03
92491393009	BRGWC-45	Water	08/20/20 12:12	08/21/20 11:08
92491393010	BRGWC-47	Water	08/20/20 14:00	08/21/20 11:08
92491393011	BRGWC-50	Water	08/20/20 09:32	08/21/20 11:08
92491393012	BRGWC-52I	Water	08/20/20 09:45	08/21/20 11:08
92491393013	DUP-2	Water	08/20/20 00:00	08/21/20 11:08
92491393014	FB-2	Water	08/20/20 09:20	08/21/20 11:08
92491393015	EB-1	Water	08/20/20 12:45	08/21/20 11:08

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92491393001	BRGWA-12I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393002	BRGWA-12S	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393003	BRGWA-23S	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393004	BRGWC-25I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393005	BRGWC-29I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393006	BRGWC-27I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393007	BRGWC-32S	EPA 6020B	CW1	12	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393008	BRGWC-30I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393009	BRGWC-45	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393010	BRGWC-47	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393011	BRGWC-50	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393012	BRGWC-52I	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393013	DUP-2	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393014	FB-2	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393015	EB-1	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393001	BRGWA-12I					
	pH	6.25	Std. Units		09/09/20 17:01	
EPA 6020B	Antimony	0.0067	mg/L	0.0030	08/21/20 18:40	
EPA 6020B	Barium	0.053	mg/L	0.010	08/21/20 18:40	
EPA 6020B	Chromium	0.0023J	mg/L	0.010	08/21/20 18:40	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	08/21/20 18:40	
EPA 9315	Radium-226	0.240 ± 0.122 (0.185)	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	C:91% T:NA 0.748 ± 0.489 (0.931)	pCi/L		09/09/20 14:47	
Total Radium Calculation	Total Radium	C:70% T:80% 0.988 ± 0.611 (1.12)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	08/20/20 20:46	
92491393002	BRGWA-12S					
	pH	5.75	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.058	mg/L	0.010	08/21/20 18:45	
EPA 6020B	Chromium	0.0029J	mg/L	0.010	08/21/20 18:45	
EPA 9315	Radium-226	0.157 ± 0.111 (0.189)	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	C:90% T:NA 0.812 ± 0.497 (0.953)	pCi/L		09/09/20 11:25	
Total Radium Calculation	Total Radium	C:70% T:90% 0.969 ± 0.608 (1.14)	pCi/L		09/10/20 15:16	
92491393003	BRGWA-23S					
	pH	5.56	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.067	mg/L	0.010	08/21/20 18:51	
EPA 6020B	Chromium	0.0017J	mg/L	0.010	08/21/20 18:51	
EPA 6020B	Cobalt	0.00067J	mg/L	0.0050	08/21/20 18:51	
EPA 6020B	Lithium	0.0099J	mg/L	0.030	08/21/20 18:51	
EPA 6020B	Selenium	0.0033J	mg/L	0.010	08/21/20 18:51	
EPA 9315	Radium-226	0.197 ± 0.113 (0.177)	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	C:84% T:NA 0.587 ± 0.442 (0.866)	pCi/L		09/09/20 11:25	
		C:72% T:79%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92491393003	BRGWA-23S					
Total Radium Calculation	Total Radium	0.784 ± 0.555 (1.04)	pCi/L		09/10/20 15:16	
92491393004	BRGWC-25I					
	pH	6.32	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.027	mg/L	0.010	08/25/20 17:36	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	08/25/20 17:36	
EPA 6020B	Molybdenum	0.00081J	mg/L	0.010	08/25/20 17:36	
EPA 7470A	Mercury	0.000083J	mg/L	0.00020	08/25/20 10:10	
EPA 9315	Radium-226	0.288 ± 0.130 (0.188)	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	C:86% T:NA 0.179 ± 0.343 (0.752)	pCi/L		09/09/20 11:25	
		C:72% T:90%				
Total Radium Calculation	Total Radium	0.467 ± 0.473 (0.940)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	08/21/20 17:55	M1
92491393005	BRGWC-29I					
	pH	4.67	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.019	mg/L	0.010	08/25/20 17:42	
EPA 6020B	Beryllium	0.00074J	mg/L	0.0030	08/25/20 17:42	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	08/25/20 17:42	
EPA 6020B	Lead	0.00025J	mg/L	0.0050	08/26/20 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	08/25/20 17:42	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	08/26/20 17:54	
EPA 7470A	Mercury	0.000098J	mg/L	0.00020	08/25/20 10:13	
EPA 9315	Radium-226	0.299 ± 0.162 (0.267)	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	C:91% T:NA 0.577 ± 0.428 (0.848)	pCi/L		09/09/20 11:25	
		C:77% T:82%				
Total Radium Calculation	Total Radium	0.876 ± 0.590 (1.12)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/21/20 18:35	
92491393006	BRGWC-27I					
	pH	5.81	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.016	mg/L	0.010	08/25/20 17:48	
EPA 6020B	Beryllium	0.000099J	mg/L	0.0030	08/25/20 17:48	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	08/25/20 17:48	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	08/25/20 17:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393006	BRGWC-271					
EPA 9315	Radium-226	0.260 ± 0.132 (0.203) C:91% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.424 ± 0.358 (0.718) C:74% T:87%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	0.684 ± 0.490 (0.921)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	08/21/20 18:48	
92491393007	BRGWC-32S					
	pH	5.97	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.025	mg/L	0.010	08/25/20 17:53	
EPA 6020B	Chromium	0.0021J	mg/L	0.010	08/25/20 17:53	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	08/25/20 17:53	
EPA 6020B	Selenium	0.099	mg/L	0.010	08/25/20 17:53	
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 10:18	
EPA 9315	Radium-226	0.0531 ± 0.0881 (0.172) C:92% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.429 ± 0.407 (0.839) C:75% T:82%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	0.482 ± 0.495 (1.01)	pCi/L		09/10/20 15:16	
92491393008	BRGWC-30I					
	pH	6.36	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.026	mg/L	0.010	08/25/20 17:59	
EPA 6020B	Cobalt	0.00080J	mg/L	0.0050	08/25/20 17:59	
EPA 6020B	Lithium	0.018J	mg/L	0.030	08/25/20 17:59	
EPA 6020B	Molybdenum	0.00078J	mg/L	0.010	08/25/20 17:59	
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 10:25	
EPA 9315	Radium-226	0.299 ± 0.125 (0.167) C:88% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.703 ± 0.450 (0.863) C:72% T:86%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	1.00 ± 0.575 (1.03)	pCi/L		09/11/20 08:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/21/20 19:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92491393009	BRGWC-45					
	pH	5.86	Std. Units		09/09/20 17:01	
EPA 6020B	Antimony	0.0031	mg/L	0.0030	08/27/20 16:48	
EPA 6020B	Barium	0.083	mg/L	0.010	08/27/20 16:48	
EPA 6020B	Beryllium	0.000046J	mg/L	0.0030	08/27/20 16:48	
EPA 6020B	Cadmium	0.00014J	mg/L	0.0025	08/27/20 16:48	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	08/27/20 16:48	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	08/27/20 16:48	
EPA 6020B	Lead	0.00021J	mg/L	0.0050	08/27/20 16:48	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	08/27/20 16:48	
EPA 6020B	Molybdenum	0.00076J	mg/L	0.010	08/27/20 16:48	
EPA 9315	Radium-226	0.194 ± 0.154 (0.275)	pCi/L		09/03/20 18:45	
		C:88% T:NA				
EPA 9320	Radium-228	0.307 ± 0.468 (1.01)	pCi/L		09/09/20 15:08	
		C:62% T:74%				
Total Radium Calculation	Total Radium	0.501 ± 0.622 (1.29)	pCi/L		09/10/20 15:16	
92491393010	BRGWC-47					
	pH	5.75	Std. Units		09/09/20 17:01	
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Barium	0.035	mg/L	0.010	08/27/20 16:53	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	08/27/20 16:53	
EPA 6020B	Chromium	0.00064J	mg/L	0.010	08/27/20 16:53	
EPA 6020B	Cobalt	0.00043J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Lithium	0.044	mg/L	0.030	08/27/20 16:53	
EPA 6020B	Selenium	0.0016J	mg/L	0.010	08/27/20 16:53	
EPA 9315	Radium-226	0.500 ± 0.164 (0.181)	pCi/L		09/03/20 18:45	
		C:86% T:NA				
EPA 9320	Radium-228	1.14 ± 0.652 (1.17)	pCi/L		09/09/20 15:08	
		C:53% T:73%				
Total Radium Calculation	Total Radium	1.64 ± 0.816 (1.35)	pCi/L		09/10/20 15:16	
92491393011	BRGWC-50					
	pH	5.26	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.019	mg/L	0.010	08/27/20 16:59	
EPA 6020B	Beryllium	0.0044	mg/L	0.0030	08/27/20 16:59	
EPA 6020B	Cadmium	0.0079	mg/L	0.0025	08/27/20 16:59	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	08/27/20 16:59	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393011	BRGWC-50					
EPA 6020B	Cobalt	1.4	mg/L	0.025	08/28/20 15:08	
EPA 6020B	Lead	0.000067J	mg/L	0.0050	08/27/20 16:59	
EPA 6020B	Lithium	0.040	mg/L	0.030	08/27/20 16:59	
EPA 6020B	Selenium	0.0037J	mg/L	0.010	08/27/20 16:59	
EPA 9315	Radium-226	0.735 ± 0.193 (0.151)	pCi/L		09/03/20 18:18	
EPA 9320	Radium-228	C:89% T:NA 2.04 ± 0.699 (0.948)	pCi/L		09/09/20 15:08	
Total Radium Calculation	Total Radium	C:71% T:67% 2.78 ± 0.892 (1.10)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.39	mg/L	0.10	08/25/20 18:20	
92491393012	BRGWC-52I					
	pH	6.85	Std. Units		09/09/20 17:01	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	08/27/20 17:05	
EPA 6020B	Barium	0.017	mg/L	0.010	08/27/20 17:05	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	08/27/20 17:05	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	08/27/20 17:05	
EPA 9315	Radium-226	0.684 ± 0.388 (0.589)	pCi/L		09/04/20 07:17	
EPA 9320	Radium-228	C:84% T:NA 2.29 ± 0.728 (0.901)	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	C:70% T:69% 2.97 ± 1.12 (1.49)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	08/25/20 19:05	
92491393013	DUP-2					
EPA 6020B	Barium	0.019	mg/L	0.010	08/27/20 17:10	
EPA 6020B	Beryllium	0.0046	mg/L	0.0030	08/27/20 17:10	
EPA 6020B	Cadmium	0.0077	mg/L	0.0025	08/27/20 17:10	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	08/27/20 17:10	
EPA 6020B	Cobalt	1.4	mg/L	0.025	08/28/20 15:13	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	08/27/20 17:10	
EPA 6020B	Lithium	0.041	mg/L	0.030	08/27/20 17:10	
EPA 6020B	Selenium	0.0038J	mg/L	0.010	08/27/20 17:10	
EPA 9315	Radium-226	0.602 ± 0.324 (0.420)	pCi/L		09/04/20 07:18	
		C:87% T:NA				

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393013	DUP-2					
EPA 9320	Radium-228	2.11 ± 0.682 (0.878) C:71% T:75%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	2.71 ± 1.01 (1.30)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.38	mg/L	0.10	08/25/20 19:20	
92491393014	FB-2					
EPA 9315	Radium-226	0.0152 ± 0.200 (0.536) C:84% T:NA	pCi/L		09/04/20 07:18	
EPA 9320	Radium-228	0.713 ± 0.432 (0.796) C:69% T:83%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	0.728 ± 0.632 (1.33)	pCi/L		09/10/20 15:16	
92491393015	EB-1					
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 09:25	
EPA 9315	Radium-226	0.115 ± 0.167 (0.346) C:89% T:NA	pCi/L		09/04/20 07:51	
EPA 9320	Radium-228	0.206 ± 0.334 (0.724) C:69% T:84%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	0.321 ± 0.501 (1.07)	pCi/L		09/10/20 15:16	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12I		Lab ID: 92491393001		Collected: 08/18/20 13:05		Received: 08/19/20 10:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.25	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0067	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:40	7440-38-2	
Barium	0.053	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:40	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:40	7440-43-9	
Chromium	0.0023J	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:40	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:40	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 18:40	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	0.000078	1	08/21/20 08:05	08/21/20 13:01	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.052J	mg/L	0.10	0.050	1		08/20/20 20:46	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12S		Lab ID: 92491393002		Collected: 08/18/20 16:25	Received: 08/19/20 10:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.75	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:45	7440-38-2	
Barium	0.058	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:45	7440-43-9	
Chromium	0.0029J	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 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	0.000078	1	08/21/20 08:05	08/21/20 13:03	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 20:59	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWA-23S		Lab ID: 92491393003		Collected: 08/18/20 15:28	Received: 08/19/20 10:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.56	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:51	7440-38-2	
Barium	0.067	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:51	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:51	7440-43-9	
Chromium	0.0017J	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:51	7440-47-3	
Cobalt	0.00067J	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:51	7439-92-1	
Lithium	0.0099J	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:51	7439-98-7	
Selenium	0.0033J	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 18:51	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	0.000078	1	08/21/20 08:05	08/21/20 13:06	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 21:13	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWC-25I		Lab ID: 92491393004		Collected: 08/19/20 09:50		Received: 08/20/20 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.32	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:36	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:36	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:36	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:36	7440-47-3	
Cobalt	0.0039J	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:36	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:36	7439-93-2	
Molybdenum	0.00081J	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:36	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 17:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000083J	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:10	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.17	mg/L	0.10	0.050	1		08/21/20 17:55	16984-48-8	M1

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-29I Lab ID: 92491393005 Collected: 08/19/20 10:50 Received: 08/20/20 10:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.67	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:42	7440-38-2	
Barium	0.019	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:42	7440-39-3	
Beryllium	0.00074J	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:42	7440-47-3	
Cobalt	0.0065	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:42	7440-48-4	
Lead	0.00025J	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 17:54	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:42	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 17:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000098J	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:13	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.12	mg/L	0.10	0.050	1		08/21/20 18:35	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-271 Lab ID: 92491393006 Collected: 08/19/20 12:05 Received: 08/20/20 10:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.81	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:48	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:48	7440-39-3	
Beryllium	0.000099J	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:48	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:48	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:00	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 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	0.000078	1	08/24/20 11:30	08/25/20 10:15	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.19	mg/L	0.10	0.050	1		08/21/20 18:48	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWC-32S **Lab ID: 92491393007** Collected: 08/19/20 13:20 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

pH	5.97	Std. Units			1		09/09/20 17:01		
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6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:53	7440-38-2	
Barium	0.025	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:53	7440-43-9	
Chromium	0.0021J	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:53	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:06	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:53	7439-98-7	
Selenium	0.099	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 18:06	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.000082J	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:18	7439-97-6	
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		08/21/20 19:02	16984-48-8	
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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-30I		Lab ID: 92491393008		Collected: 08/19/20 15:05		Received: 08/20/20 10:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.36	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:59	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:59	7440-47-3	
Cobalt	0.00080J	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:12	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:59	7439-93-2	
Molybdenum	0.00078J	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 18:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000082J	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:25	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.14	mg/L	0.10	0.050	1		08/21/20 19:15	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-45		Lab ID: 92491393009		Collected: 08/20/20 12:12		Received: 08/21/20 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.86	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0031	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:48	7440-38-2	
Barium	0.083	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:48	7440-39-3	
Beryllium	0.000046J	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:48	7440-41-7	
Cadmium	0.00014J	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:48	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:48	7440-47-3	
Cobalt	0.022	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 16:48	7440-48-4	
Lead	0.00021J	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:48	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:48	7439-93-2	
Molybdenum	0.00076J	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:48	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	0.000078	1	08/24/20 11:30	08/25/20 10:27	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 17:21	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-47		Lab ID: 92491393010		Collected: 08/20/20 14:00		Received: 08/21/20 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.75	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:53	7440-36-0	
Arsenic	0.00089J	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:53	7440-38-2	
Barium	0.035	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:53	7440-39-3	
Beryllium	0.000047J	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:53	7440-43-9	
Chromium	0.00064J	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:53	7440-47-3	
Cobalt	0.00043J	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 16:53	7440-48-4	
Lead	0.000048J	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:53	7439-92-1	
Lithium	0.044	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:53	7439-98-7	
Selenium	0.0016J	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:53	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	0.000078	1	08/24/20 11:30	08/25/20 10:29	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 18:05	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-50		Lab ID: 92491393011		Collected: 08/20/20 09:32		Received: 08/21/20 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.26	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:59	7440-38-2	
Barium	0.019	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:59	7440-39-3	
Beryllium	0.0044	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:59	7440-41-7	
Cadmium	0.0079	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:59	7440-43-9	
Chromium	0.00065J	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:59	7440-47-3	
Cobalt	1.4	mg/L	0.025	0.0019	5	08/24/20 15:10	08/28/20 15:08	7440-48-4	
Lead	0.00067J	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:59	7439-92-1	
Lithium	0.040	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:59	7439-98-7	
Selenium	0.0037J	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:59	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	0.000078	1	08/24/20 11:30	08/25/20 10:32	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.39	mg/L	0.10	0.050	1		08/25/20 18:20	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-52I		Lab ID: 92491393012		Collected: 08/20/20 09:45		Received: 08/21/20 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.85	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:05	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:05	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:05	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:05	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:05	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	0.000078	1	08/24/20 11:30	08/25/20 10:34	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.23	mg/L	0.10	0.050	1		08/25/20 19:05	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: DUP-2		Lab ID: 92491393013		Collected: 08/20/20 00:00		Received: 08/21/20 11:08		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							
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:10	7440-38-2	
Barium	0.019	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:10	7440-39-3	
Beryllium	0.0046	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:10	7440-41-7	
Cadmium	0.0077	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:10	7440-43-9	
Chromium	0.00065J	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:10	7440-47-3	
Cobalt	1.4	mg/L	0.025	0.0019	5	08/24/20 15:10	08/28/20 15:13	7440-48-4	
Lead	0.000050J	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:10	7439-92-1	
Lithium	0.041	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:10	7439-98-7	
Selenium	0.0038J	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:10	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	0.000078	1	08/24/20 11:30	08/25/20 10:37	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.38	mg/L	0.10	0.050	1		08/25/20 19:20	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: FB-2		Lab ID: 92491393014		Collected: 08/20/20 09:20		Received: 08/21/20 11:08		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							
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:38	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:38	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 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	0.000078	1	08/24/20 11:30	08/25/20 10:39	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 19:35	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: EB-1		Lab ID: 92491393015		Collected: 08/20/20 12:45		Received: 08/21/20 11:08		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							
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:43	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:43	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:43	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:43	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:43	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	0.000082J	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 09:25	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 19:50	16984-48-8	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561324 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977587 Matrix: Water

Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/21/20 17:31	
Arsenic	mg/L	ND	0.0050	0.00078	08/21/20 17:31	
Barium	mg/L	ND	0.010	0.00071	08/21/20 17:31	
Beryllium	mg/L	ND	0.0030	0.000046	08/21/20 17:31	
Cadmium	mg/L	ND	0.0025	0.00012	08/21/20 17:31	
Chromium	mg/L	ND	0.010	0.00055	08/21/20 17:31	
Cobalt	mg/L	ND	0.0050	0.00038	08/21/20 17:31	
Lead	mg/L	ND	0.0050	0.000036	08/21/20 17:31	
Lithium	mg/L	ND	0.030	0.00081	08/21/20 17:31	
Molybdenum	mg/L	ND	0.010	0.00069	08/21/20 17:31	
Selenium	mg/L	ND	0.010	0.0016	08/21/20 17:31	
Thallium	mg/L	ND	0.0010	0.00014	08/21/20 17:31	

LABORATORY CONTROL SAMPLE: 2977588

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	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	100	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	100	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977589 2977590

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92491389001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	2	20	
Barium	mg/L	0.022	0.1	0.1	0.13	0.12	108	96	75-125	9	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameter	Units	2977589		2977590		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92491389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Chromium	mg/L	0.0069J	0.1	0.1	0.11	0.11	102	101	75-125	1	20		
Cobalt	mg/L	0.00048J	0.1	0.1	0.10	0.099	99	99	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		
Lithium	mg/L	0.00095J	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Molybdenum	mg/L	0.0015J	0.1	0.1	0.10	0.10	99	101	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.091	94	90	75-125	4	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: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561963 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 2980652 Matrix: Water
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/25/20 16:08	
Arsenic	mg/L	ND	0.0050	0.00078	08/25/20 16:08	
Barium	mg/L	ND	0.010	0.00071	08/25/20 16:08	
Beryllium	mg/L	ND	0.0030	0.000046	08/25/20 16:08	
Cadmium	mg/L	ND	0.0025	0.00012	08/25/20 16:08	
Chromium	mg/L	ND	0.010	0.00055	08/25/20 16:08	
Cobalt	mg/L	ND	0.0050	0.00038	08/25/20 16:08	
Lead	mg/L	ND	0.0050	0.000036	08/26/20 16:20	
Lithium	mg/L	ND	0.030	0.00081	08/25/20 16:08	
Molybdenum	mg/L	ND	0.010	0.00069	08/25/20 16:08	
Selenium	mg/L	ND	0.010	0.0016	08/25/20 16:08	
Thallium	mg/L	ND	0.0010	0.00014	08/26/20 16:20	

LABORATORY CONTROL SAMPLE: 2980653

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	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980654 2980655

Parameter	Units	2980654		2980655		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Antimony	mg/L	0.00064J	0.1	0.1	0.10	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	99	99	75-125	0	20	
Barium	mg/L	0.12	0.1	0.1	0.24	115	114	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	98	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameter	Units	2980654		2980655		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Cadmium	mg/L	0.00058J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Lead	mg/L	0.00035J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.098	96	97	75-125	1	20	
Molybdenum	mg/L	0.00077J	0.1	0.1	0.10	0.10	102	99	75-125	2	20	
Selenium	mg/L	0.0028J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Thallium	mg/L	0.00021J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561964 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 2980659 Matrix: Water
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/27/20 15:08	
Arsenic	mg/L	ND	0.0050	0.00078	08/27/20 15:08	
Barium	mg/L	ND	0.010	0.00071	08/27/20 15:08	
Beryllium	mg/L	ND	0.0030	0.000046	08/27/20 15:08	
Cadmium	mg/L	ND	0.0025	0.00012	08/27/20 15:08	
Chromium	mg/L	ND	0.010	0.00055	08/27/20 15:08	
Cobalt	mg/L	ND	0.0050	0.00038	08/27/20 15:08	
Lead	mg/L	ND	0.0050	0.000036	08/27/20 15:08	
Lithium	mg/L	ND	0.030	0.00081	08/27/20 15:08	
Molybdenum	mg/L	ND	0.010	0.00069	08/27/20 15:08	
Selenium	mg/L	ND	0.010	0.0016	08/27/20 15:08	
Thallium	mg/L	ND	0.0010	0.00014	08/27/20 15:08	

LABORATORY CONTROL SAMPLE: 2980660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980661 2980662

Parameter	Units	2980661		2980662		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.10	0.10	103	102	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.10	0.10	101	100	75-125	1	20	
Barium	mg/L	0.047	0.1	0.14	0.14	98	97	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameter	Units	2980661		2980662		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92491663009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20		
Chromium	mg/L	0.012	0.1	0.1	0.12	0.11	106	102	75-125	4	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Lithium	mg/L	0.0010J	0.1	0.1	0.10	0.099	98	98	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20		
Selenium	mg/L	0.0030J	0.1	0.1	0.10	0.10	99	102	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561377 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977870 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/21/20 12:32	

LABORATORY CONTROL SAMPLE: 2977871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977872 2977873

Parameter	Units	2977872		2977873		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92491389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	104	106	75-125	2	20

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561894	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92491393015

METHOD BLANK: 2980088 Matrix: Water

Associated Lab Samples: 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/25/20 08:19	

LABORATORY CONTROL SAMPLE: 2980089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980090 2980091

Parameter	Units	2980090		2980091		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0026	90	102	75-125	12	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561900 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014

METHOD BLANK: 2980098 Matrix: Water
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/25/20 09:32	

LABORATORY CONTROL SAMPLE: 2980099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980100 2980101

Parameter	Units	2980100		2980101		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92491663001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	90	94	75-125	3	20

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561236 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977010 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/20/20 16:29	

LABORATORY CONTROL SAMPLE: 2977011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977012 2977013

Parameter	Units	2977012		2977013		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490037006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.4	107	94	90-110	12	10 R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977014 2977015

Parameter	Units	2977014		2977015		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92491455002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Fluoride	mg/L	ND	2.5	2.5	2.4	2.3	95	92	90-110	4	10

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

QC Batch: 561506 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 2978310 Matrix: Water
 Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/21/20 17:28	

LABORATORY CONTROL SAMPLE: 2978311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2978312 2978313

Parameter	Units	2978312		2978313		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.17	2.5	2.5	3.0	3.0	112	112	90-110	0	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2978314 2978315

Parameter	Units	2978314		2978315		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.060J	2.5	2.5	2.7	2.7	105	106	90-110	1	10

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 562094 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 2981303 Matrix: Water
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/25/20 12:53	

LABORATORY CONTROL SAMPLE: 2981304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2981305 2981306

Parameter	Units	92492088001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2981307 2981308

Parameter	Units	92491393009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	103	90-110	0	10	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWA-12I **Lab ID: 92491393001** Collected: 08/18/20 13:05 Received: 08/19/20 10:10 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	0.240 ± 0.122 (0.185) C:91% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.748 ± 0.489 (0.931) C:70% T:80%	pCi/L	09/09/20 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.988 ± 0.611 (1.12)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-12S Lab ID: 92491393002 Collected: 08/18/20 16:25 Received: 08/19/20 10:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.157 ± 0.111 (0.189) C:90% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.812 ± 0.497 (0.953) C:70% T:90%	pCi/L	09/09/20 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.969 ± 0.608 (1.14)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWA-23S **Lab ID: 92491393003** Collected: 08/18/20 15:28 Received: 08/19/20 10:10 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	0.197 ± 0.113 (0.177) C:84% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.587 ± 0.442 (0.866) C:72% T:79%	pCi/L	09/09/20 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.784 ± 0.555 (1.04)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-25I Lab ID: 92491393004 Collected: 08/19/20 09:50 Received: 08/20/20 10:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.288 ± 0.130 (0.188) C:86% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.179 ± 0.343 (0.752) C:72% T:90%	pCi/L	09/09/20 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.467 ± 0.473 (0.940)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-29I Lab ID: 92491393005 Collected: 08/19/20 10:50 Received: 08/20/20 10:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.299 ± 0.162 (0.267) C:91% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.577 ± 0.428 (0.848) C:77% T:82%	pCi/L	09/09/20 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.876 ± 0.590 (1.12)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-271 Lab ID: 92491393006 Collected: 08/19/20 12:05 Received: 08/20/20 10:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.260 ± 0.132 (0.203) C:91% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.424 ± 0.358 (0.718) C:74% T:87%	pCi/L	09/09/20 11:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.684 ± 0.490 (0.921)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-32S Lab ID: 92491393007 Collected: 08/19/20 13:20 Received: 08/20/20 10:03 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0531 ± 0.0881 (0.172) C:92% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.429 ± 0.407 (0.839) C:75% T:82%	pCi/L	09/09/20 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.482 ± 0.495 (1.01)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-30I Lab ID: 92491393008 Collected: 08/19/20 15:05 Received: 08/20/20 10:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.299 ± 0.125 (0.167) C:88% T:NA	pCi/L	09/08/20 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.703 ± 0.450 (0.863) C:72% T:86%	pCi/L	09/09/20 11:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.00 ± 0.575 (1.03)	pCi/L	09/11/20 08:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-45 Lab ID: 92491393009 Collected: 08/20/20 12:12 Received: 08/21/20 11:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.194 ± 0.154 (0.275) C:88% T:NA	pCi/L	09/03/20 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.307 ± 0.468 (1.01) C:62% T:74%	pCi/L	09/09/20 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.501 ± 0.622 (1.29)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWC-47 **Lab ID: 92491393010** Collected: 08/20/20 14:00 Received: 08/21/20 11:08 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	0.500 ± 0.164 (0.181) C:86% T:NA	pCi/L	09/03/20 18:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.14 ± 0.652 (1.17) C:53% T:73%	pCi/L	09/09/20 15:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.64 ± 0.816 (1.35)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: BRGWC-50 **Lab ID: 92491393011** Collected: 08/20/20 09:32 Received: 08/21/20 11:08 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	0.735 ± 0.193 (0.151) C:89% T:NA	pCi/L	09/03/20 18:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.04 ± 0.699 (0.948) C:71% T:67%	pCi/L	09/09/20 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.78 ± 0.892 (1.10)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-52I Lab ID: 92491393012 Collected: 08/20/20 09:45 Received: 08/21/20 11:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.684 ± 0.388 (0.589) C:84% T:NA	pCi/L	09/04/20 07:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.29 ± 0.728 (0.901) C:70% T:69%	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.97 ± 1.12 (1.49)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: DUP-2 **Lab ID: 92491393013** Collected: 08/20/20 00:00 Received: 08/21/20 11:08 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	0.602 ± 0.324 (0.420) C:87% T:NA	pCi/L	09/04/20 07:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.11 ± 0.682 (0.878) C:71% T:75%	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.71 ± 1.01 (1.30)	pCi/L	09/10/20 15:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: FB-2 **Lab ID: 92491393014** Collected: 08/20/20 09:20 Received: 08/21/20 11:08 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	0.0152 ± 0.200 (0.536) C:84% T:NA	pCi/L	09/04/20 07:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.713 ± 0.432 (0.796) C:69% T:83%	pCi/L	09/09/20 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.728 ± 0.632 (1.33)	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Sample: EB-1 **Lab ID: 92491393015** Collected: 08/20/20 12:45 Received: 08/21/20 11:08 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	0.115 ± 0.167 (0.346) C:89% T:NA	pCi/L	09/04/20 07:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.206 ± 0.334 (0.724) C:69% T:84%	pCi/L	09/09/20 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.321 ± 0.501 (1.07)	pCi/L	09/10/20 15:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

QC Batch: 411440

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 1990348

Matrix: Water

Associated Lab Samples: 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.805 ± 0.381 (0.635) C:74% T:86%	pCi/L	09/09/20 11:25	

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: BRANCH BCD NETWORK

Pace Project No.: 92491393

QC Batch: 411439

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92491393001, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 1990347

Matrix: Water

Associated Lab Samples: 92491393001, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.274 ± 0.326 (0.685) C:63% T:88%	pCi/L	09/09/20 12:01	

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: BRANCH BCD NETWORK

Pace Project No.: 92491393

QC Batch: 412359

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92491393001, 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 1994519

Matrix: Water

Associated Lab Samples: 92491393001, 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0753 ± 0.0856 (0.159) C:96% T:NA	pCi/L	09/08/20 17:44	

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: BRANCH BCD NETWORK

Pace Project No.: 92491393

QC Batch: 411375

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 1989998

Matrix: Water

Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.135 ± 0.115 (0.203) C:91% T:NA	pCi/L	09/03/20 16:47	

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: BRANCH BCD NETWORK

Pace Project No.: 92491393

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.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393001	BRGWA-12I				
92491393002	BRGWA-12S				
92491393003	BRGWA-23S				
92491393004	BRGWC-25I				
92491393005	BRGWC-29I				
92491393006	BRGWC-27I				
92491393007	BRGWC-32S				
92491393008	BRGWC-30I				
92491393009	BRGWC-45				
92491393010	BRGWC-47				
92491393011	BRGWC-50				
92491393012	BRGWC-52I				
92491393001	BRGWA-12I	EPA 3005A	561324	EPA 6020B	561396
92491393002	BRGWA-12S	EPA 3005A	561324	EPA 6020B	561396
92491393003	BRGWA-23S	EPA 3005A	561324	EPA 6020B	561396
92491393004	BRGWC-25I	EPA 3005A	561963	EPA 6020B	562039
92491393005	BRGWC-29I	EPA 3005A	561963	EPA 6020B	562039
92491393006	BRGWC-27I	EPA 3005A	561963	EPA 6020B	562039
92491393007	BRGWC-32S	EPA 3005A	561963	EPA 6020B	562039
92491393008	BRGWC-30I	EPA 3005A	561963	EPA 6020B	562039
92491393009	BRGWC-45	EPA 3005A	561964	EPA 6020B	562041
92491393010	BRGWC-47	EPA 3005A	561964	EPA 6020B	562041
92491393011	BRGWC-50	EPA 3005A	561964	EPA 6020B	562041
92491393012	BRGWC-52I	EPA 3005A	561964	EPA 6020B	562041
92491393013	DUP-2	EPA 3005A	561964	EPA 6020B	562041
92491393014	FB-2	EPA 3005A	561964	EPA 6020B	562041
92491393015	EB-1	EPA 3005A	561964	EPA 6020B	562041
92491393001	BRGWA-12I	EPA 7470A	561377	EPA 7470A	561555
92491393002	BRGWA-12S	EPA 7470A	561377	EPA 7470A	561555
92491393003	BRGWA-23S	EPA 7470A	561377	EPA 7470A	561555
92491393004	BRGWC-25I	EPA 7470A	561900	EPA 7470A	562049
92491393005	BRGWC-29I	EPA 7470A	561900	EPA 7470A	562049
92491393006	BRGWC-27I	EPA 7470A	561900	EPA 7470A	562049
92491393007	BRGWC-32S	EPA 7470A	561900	EPA 7470A	562049
92491393008	BRGWC-30I	EPA 7470A	561900	EPA 7470A	562049
92491393009	BRGWC-45	EPA 7470A	561900	EPA 7470A	562049
92491393010	BRGWC-47	EPA 7470A	561900	EPA 7470A	562049
92491393011	BRGWC-50	EPA 7470A	561900	EPA 7470A	562049
92491393012	BRGWC-52I	EPA 7470A	561900	EPA 7470A	562049
92491393013	DUP-2	EPA 7470A	561900	EPA 7470A	562049
92491393014	FB-2	EPA 7470A	561900	EPA 7470A	562049
92491393015	EB-1	EPA 7470A	561894	EPA 7470A	562048
92491393001	BRGWA-12I	EPA 9315	412359		
92491393002	BRGWA-12S	EPA 9315	412359		
92491393003	BRGWA-23S	EPA 9315	412359		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393004	BRGWC-25I	EPA 9315	412359		
92491393005	BRGWC-29I	EPA 9315	412359		
92491393006	BRGWC-27I	EPA 9315	412359		
92491393007	BRGWC-32S	EPA 9315	412359		
92491393008	BRGWC-30I	EPA 9315	412359		
92491393009	BRGWC-45	EPA 9315	411375		
92491393010	BRGWC-47	EPA 9315	411375		
92491393011	BRGWC-50	EPA 9315	411375		
92491393012	BRGWC-52I	EPA 9315	411375		
92491393013	DUP-2	EPA 9315	411375		
92491393014	FB-2	EPA 9315	411375		
92491393015	EB-1	EPA 9315	411375		
92491393001	BRGWA-12I	EPA 9320	411439		
92491393002	BRGWA-12S	EPA 9320	411440		
92491393003	BRGWA-23S	EPA 9320	411440		
92491393004	BRGWC-25I	EPA 9320	411440		
92491393005	BRGWC-29I	EPA 9320	411440		
92491393006	BRGWC-27I	EPA 9320	411440		
92491393007	BRGWC-32S	EPA 9320	411440		
92491393008	BRGWC-30I	EPA 9320	411440		
92491393009	BRGWC-45	EPA 9320	411439		
92491393010	BRGWC-47	EPA 9320	411439		
92491393011	BRGWC-50	EPA 9320	411439		
92491393012	BRGWC-52I	EPA 9320	411439		
92491393013	DUP-2	EPA 9320	411439		
92491393014	FB-2	EPA 9320	411439		
92491393015	EB-1	EPA 9320	411439		
92491393001	BRGWA-12I	Total Radium Calculation	413385		
92491393002	BRGWA-12S	Total Radium Calculation	413385		
92491393003	BRGWA-23S	Total Radium Calculation	413385		
92491393004	BRGWC-25I	Total Radium Calculation	413385		
92491393005	BRGWC-29I	Total Radium Calculation	413385		
92491393006	BRGWC-27I	Total Radium Calculation	413385		
92491393007	BRGWC-32S	Total Radium Calculation	413385		
92491393008	BRGWC-30I	Total Radium Calculation	413442		
92491393009	BRGWC-45	Total Radium Calculation	413385		
92491393010	BRGWC-47	Total Radium Calculation	413385		
92491393011	BRGWC-50	Total Radium Calculation	413385		
92491393012	BRGWC-52I	Total Radium Calculation	413385		
92491393013	DUP-2	Total Radium Calculation	413385		
92491393014	FB-2	Total Radium Calculation	413385		
92491393015	EB-1	Total Radium Calculation	413385		
92491393001	BRGWA-12I	EPA 300.0 Rev 2.1 1993	561236		
92491393002	BRGWA-12S	EPA 300.0 Rev 2.1 1993	561236		
92491393003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	561236		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

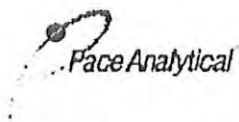
Project: BRANCH BCD NETWORK

Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393004	BRGWC-25I	EPA 300.0 Rev 2.1 1993	561506		
92491393005	BRGWC-29I	EPA 300.0 Rev 2.1 1993	561506		
92491393006	BRGWC-27I	EPA 300.0 Rev 2.1 1993	561506		
92491393007	BRGWC-32S	EPA 300.0 Rev 2.1 1993	561506		
92491393008	BRGWC-30I	EPA 300.0 Rev 2.1 1993	561506		
92491393009	BRGWC-45	EPA 300.0 Rev 2.1 1993	562094		
92491393010	BRGWC-47	EPA 300.0 Rev 2.1 1993	562094		
92491393011	BRGWC-50	EPA 300.0 Rev 2.1 1993	562094		
92491393012	BRGWC-52I	EPA 300.0 Rev 2.1 1993	562094		
92491393013	DUP-2	EPA 300.0 Rev 2.1 1993	562094		
92491393014	FB-2	EPA 300.0 Rev 2.1 1993	562094		
92491393015	EB-1	EPA 300.0 Rev 2.1 1993	562094		

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Sample Condition Upon Receipt

WO#: 92491393

Client Name: GA Power



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 233 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.6°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 5/19/20 COH

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Wi-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (> 6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Bottle Identification Form (BIF)
 Document No.:
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019
 Page 1 of 1
 Issuing Authority:
 Pace Carolinas Quality Office

Project #

WO# : 92491393

PM: KLH1

Due Date: 09/02/20

CLIENT: GA-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/BO15 (water) DOC, LLHg

• Bottom half of box is to list number of bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1N-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S03S kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Sanitization vials (N/A)	
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 DEHNR Certification Unit. Out of hold, Incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Filling information:

Company: Georgia Power - Coal Combustion Residua's
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Report To: Joju Abraham
 Email: j.abraham@southernco.com
 Phone: (404) 506-7239
 Email: j.abraham@southernco.com
 Project Name: Plant Branch BCD Network
 Project # CCR
 Email: j.abraham@southernco.com
 Purchase Order #
 Collected By (Print): Travis Martinez
 Quote #
 Andra McCure
 Collected By (Signature): *[Signature]*
 Turnaround Date Required:
 Rush Same Day Next Day 2 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)
 Analysis: _____

LAB USE ONLY - Attach Workorder/Login Label Here or List Pace Workorder Number or
 MTIL Login Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **	1	1	1
** Preservative Types: (1) nitric acid; (2) sulfuric acid; (3) hydrochloric acid; (4) sodium hydroxide; (5) zinc acetate; (6) methanol; (7) sodium bisulfate; (8) sodium thiosulfate; (9) hexane; (A) acetic acid; (B) ammonium sulfite; (C) ammonium hydroxide; (D) TSP; (U) Unpreserved; (O) Other			

Lab Project Manager: _____

Lab Profile/Line: _____

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y/N NA
 Custody Signatures Present Y/N NA
 Collector Signatures Present Y/N NA
 Bottles Intact Y/N NA
 Correct Bottles Y/N NA
 Sufficient Volume Y/N NA
 Samples Received on Ice Y/N NA
 VOA - Headspace Acceptable Y/N NA
 USDA Regulated Soils Y/N NA
 Samples in Holding Time Y/N NA
 Residual Chlorine Present Y/N NA
 Cl Strips: _____
 Sample pH Acceptable Y/N NA
 pH Strips: _____
 Sulfide Present Y/N NA
 Lead Acetate Strips: _____

LAB USE ONLY:
 Lab Sample # / Comments: *9249393*

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite		Composite End		pH	# of Cnts	Metals App IV - see comments	Fluoride	Radium 226.228	Mercury	LAB USE ONLY: Lab Sample # / Comments:
			Date	Time	Date	Time							
BRGWA-12E	GW	G	8-18-2020	1305			6.25	4	X	X	X		
BRGWA-12S	GW	G	8-18-2020	1625			5.75	4	X	X	X		
BRGWA-23S	GW	G	8-18-2020	1528			5.56	4	X	X	X		
(App IV Metals): Sp, As, Ba, Be, Cd, Cr, Co, Hg, Pb, Li, Mo, Se, Tl Type of Ice Used: <u>Wet</u> Blue Dry None Packing Material Used: _____ Specimen sample(s) screened (<SD) qm): Y N NA Samples received via: FEDEX UPS Client Counter Pace Counter Date/Time: <i>8-19-2020 10815</i> Received by/Company: (Signature) Date/Time: <i>8-19-2020 10815</i> Received by/Company: (Signature) Date/Time: _____ Received by/Company: (Signature) Date/Time: _____ Received by/Company: (Signature) Date/Time: _____ Received by/Company: (Signature)													
Relinquished by/Company (Signature) <i>[Signature]</i>													
Relinquished by/Company (Signature) <i>[Signature]</i>													
Relinquished by/Company (Signature) <i>[Signature]</i>													



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Marner Road
 Atlanta, GA 30339
 Report To: Jofu Abraham
 Email To: scsinvoices@southernco.com

Billing Information:

Phone: (404) 506-7239
 Email: jabraham@southernco.com
 Project Name: Plant Branch BCD Network
 Project # CCR
 Collected By (Print): Travis Martinez,
 Andreea Mclure

State: Georgia City: Milledgeville Time Zone Collected:
 1 PMT 1 CT 1 XLET
 Pace Profile#
 Pace Project Manager:
 kevin.herring@paceclabs.com
 Immediately Packed on Ice:
 Yes No
 Field Filtered (if applicable):
 Yes No
 Analysis:
 Same Day Next Day
 12 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Turnaround Date Required:
 Rush:
 Same Day Next Day
 12 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
 Product (P), Soil/Solid (SL), Oil (OL), Wipe (WF), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		pH	# of Cms
			Date	Time	Date	Time		
BRGWC-25I	GW	G	8-14-2020	0950			6.32	4
BRGWC-24I	GW	G	8-14-2020	1050			4.67	4
BRGWC-27I	GW	G	8-14-2020	1205			5.81	4
BRGWC-32S	GW	G	8-14-2020	1320			5.47	4
BRGWC-30I	GW	G	8-14-2020	1505			6.36	4

(App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Hg, Pb, Li, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature)
Ken Holder
 Date/Time: 8-20-2020 / 10815
 Relinquished by/Company: (Signature)

Received by/Company: (Signature)
K. Williams
 Date/Time: 8/20/20
 Received by/Company: (Signature)

Relinquished by/Company: (Signature)
 Date/Time:
 Received by/Company: (Signature)

LAB USE ONLY - ATTENTION
MO# : 92491393
 PM: KLH1
 CLIENT: GR-GR Power
 Due Date: 09/02/20

Container Present: 1
 Analyses:
 ** Preservation Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) acetic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Metals App IV - see comments	Fluoride	Radium 226.228	Mercury
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

Lab Tracking #: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via:
 FEDEX UPS Client Courier Pace Courier
 Date/Time: 8/20/20 1003
 Table #: MTIL LAB USE ONLY

Account: MTIL LAB USE ONLY
 Template:
 Prelogn:
 PM:
 PB:

Date/Time:
 Received by/Company: (Signature)

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID: TH0230
 Cooler 1 Temp Upon Receipt: 5C
 Cooler 1 Therm Corr. Factor: Doc
 Cooler 1 Corrected Temp: 13C
 Comments:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: 1 of 1

LAB USE ONLY:
 Lab Sample # / Comments:
 92491393



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Report To: Joju Abraham
 Copy To: Golder

Billing Information:
 Email To: sctsnovices@southernco.com
 Site Collection Info/Address: Plant Branch

State Georgia City: Milledgeville Time Zone Collected:
 Project Name: Plant Branch BCD Network
 Project # CCR
 Purchase Order #
 Quote #
 Turnaround Date Required

State Project Manager:
 Kevin.herring@paeclabs.com
 Immediately Packed on Ice:
 Yes No
 Rush:
 Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
 Expedite Charges Apply?

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Biossary (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		pH	# of Ctrs
			Date	Time	Date	Time		
BRGWC-45	GW	G	8-20-2020	1212			5.86	4
BRGWC-47	GW	G	8-20-2020	1400			5.75	4
BRGWC-50	GW	G	8-20-2020	0932			5.26	4
BRGWC-52I	GW	G	8-20-2020	0945			6.85	6
DVP-2	GW	G	8-20-2020					4
FB-2	WT	G	8-26-2020	0920				4
EB-1	WT	G	8-20-2020	1245				4

(App IV Metals) Sb, As, Ba, Be, Cd, Cr, Co, Hg, Pb, U, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company (Signature):
 Date/Time:
 Received by/Company (Signature):
 Date/Time:

Relinquished by/Company (Signature):
 Date/Time:
 Received by/Company (Signature):
 Date/Time:

LAB USE ONLY: Affix Workorder/Login Label Here or Use Pace Workorder Number or MTL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservation Type **	Analyses	
	1	2
Metals App IV - see comments	X	X
Fluoride	X	X
Radium 226.228	X	X
Mercury	X	X

LAB USE ONLY:
 Lab Sample # / Comments:
 92491343

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: 333
 Cooler 1 Temp Upon Receipt: 33.0c
 Cooler 1 Therm Corr. Factor: 0c
 Cooler 1 Corrected Temp: 33.0c

Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Corrected Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace Acceptable: Y N NA
 USDA Regulated Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 Cl Strips:
 Sample pH Acceptable: Y N NA
 pH Strips:
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 9/3/2020
Worklist: 55839
Matrix: DW

Method Blank Assessment	
MB Sample ID	1989998
MB concentration:	0.135
MB Counting Uncertainty:	0.113
MB MDC:	0.203
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	9/4/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.045
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc. (pCi/L, g, F):	4.785
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	4.098
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.782
Numerical Performance Indicator:	-1.72
Percent Recovery:	85.64%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92491393012
Duplicate Sample I.D.:	92491393012DUP
Sample Result (pCi/L, g, F):	0.684
Sample Result Counting Uncertainty (pCi/L, g, F):	0.375
Sample Duplicate Result (pCi/L, g, F):	0.377
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.254
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	(1.32) <i>CL</i>
Duplicate RPD:	57.84%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Data must be rechecked due to unacceptable precision. N/A
AM 9/4/2020

Sample Matrix Spike Control Assessment	
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 Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (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 Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (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:	

AM 9/4/2020

Over...

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: LAL
Date: 9/3/2020
Worklist: 55839
Matrix: DW

Method Blank Assessment	
MB Sample ID	1988998
MB Concentration:	0.135
MB Counting Uncertainty:	0.113
MB MDC:	0.203
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD55839	LCSD55839
Count Date:	9/4/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.045
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc. (pCi/L, g, F):	4.785
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	4.098
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.782
Numerical Performance Indicator:	-1.72
Percent Recovery:	85.64%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92491663008
Duplicate Sample I.D.:	92491663008DUP
Sample Result (pCi/L, g, F):	0.467
Sample Result Counting Uncertainty (pCi/L, g, F):	0.143
Sample Duplicate Result (pCi/L, g, F):	0.359
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.256
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	0.728
Duplicate RPD:	26.34%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision: N/A

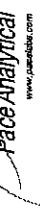
WAM 9/14/2020

Sample Matrix Spike Control Assessment	
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 Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (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.:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (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:	

WAM 9/14/2020
TAR_55839_W.xls
Total Alpha Radium (R104-3 11Feb2019).xls
WAM

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 9/8/2020
Worklist: 55962
Matrix: DW

Method Blank Assessment	
MB Sample ID	1994519
MB concentration:	0.075
M/B Counting Uncertainty:	0.085
MB MDC:	0.159
MB Numerical Performance Indicator:	1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS55962	Y
Count Date:	9/9/2020	LCS/D55962
Spike I.D.:	19-033	9/9/2020
Decay Corrected Spike Concentration (pCi/mL):	24.045	19-033
Volume Used (mL):	0.10	24.045
Aliquot Volume (L, g, F):	0.506	0.10
Target Conc. (pCi/L, g, F):	4.757	0.506
Uncertainty (Calculated):	0.057	4.755
Result (pCi/L, g, F):	4.703	0.057
Uncertainty (pCi/L, g, F):	0.784	4.482
Percent Recovery:	98.88%	0.767
Status vs Numerical Indicator:	N/A	-0.69
Upper % Recovery Limits:	125%	94.27%
Lower % Recovery Limits:	75%	N/A
		Pass
		125%
		75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:

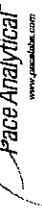
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target 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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

LAM 9/9/2020

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 9/8/2020
Worklist: 55962
Matrix: DW

Method Blank Assessment	
MB Sample ID	1994519
MB concentration:	0.075
M/B Counting Uncertainty:	0.085
MB MDC:	0.159
MB Numerical Performance Indicator:	1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	Y	N
Count Date:	9/9/2020	LCSD:55962
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.506	
Target Conc. (pCi/L, g, F):	4.757	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.703	
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.784	
Numerical Performance Indicator:	-0.13	
Percent Recovery:	98.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	92491393007
Duplicate Sample I.D.:	92491393007DUP
Sample Result (pCi/L, g, F):	0.053
Sample Duplicate Result (pCi/L, g, F):	0.088
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.094
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.086
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-0.651
Duplicate RPD:	55.49%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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 Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (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:

***Batch must be re-prepped due to unacceptable precision. N/A
LAL 9/11/2020

LAL 9/9/2020

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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 9/2/2020
Worklist: 55853
Matrix: WT

Method Blank Assessment	
MB Sample ID	1990347
MB concentration:	0.274
MB 2 Sigma CSU:	0.326
MB MDC:	0.685
MB Numerical Performance Indicator:	1.65
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS#55853	Y
Count Date:		9/2/2020	
Spike I.D.:		20-030	
Decay Corrected Spike Concentration (pCi/mL):		38.472	
Volume Used (mL):		0.10	
Aliquot Volume (L, g, F):		0.810	
Target Conc. (pCi/L, g, F):		4.748	
Uncertainty (Calculated):		0.233	
Result (pCi/L, g, F):		4.963	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		1.118	
Numerical Performance Indicator:		0.37	
Percent Recovery:		104.53%	
Status vs Numerical Indicator:		N/A	
Status vs Recovery:		Pass	
Upper % Recovery Limits:		135%	
Lower % Recovery Limits:		60%	

Duplicate Sample Assessment		LCS#55853	Y
Sample I.D.:		9/2/2020	
Duplicate Sample I.D.:		20-030	
Sample Result (pCi/L, g, F):		38.472	
Sample Duplicate Result (pCi/L, g, F):		0.10	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.810	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		4.748	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		0.233	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		4.963	
Are sample and/or duplicate results below RL?		1.205	
Duplicate Numerical Performance Indicator:		1.38	
Duplicate Numerical Performance Indicator:		118.30%	
Duplicate Status vs Numerical Indicator:		N/A	
Duplicate Status vs RPD:		Pass	
% RPD Limit:		135%	
		60%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

9-10-20
TJ

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries): MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

9/2/20
TJ

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/3/2020
Worklist: 55854
Matrix: WT

Method Blank Assessment	
MB Sample ID	1990348
MB concentration:	0.805
MB 2 Sigma CSU:	0.381
MB MDC:	0.635
MB Numerical Performance Indicator:	4.14
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD55854	LCSD55854
Count Date:	9/9/2020	9/9/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	38.472	38.472
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.812
Target Conc. (pCi/L, g, F):	4.718	4.741
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	5.944	5.257
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.289	1.159
Numerical Performance Indicator:	1.83	0.86
Percent Recovery:	125.98%	110.89%
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	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCSD55854
Duplicate Sample I.D.:	LCSD55854
Sample Result (pCi/L, g, F):	5.944
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.289
Sample Duplicate Result (pCi/L, g, F):	5.257
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.159
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.777
Duplicate Percent Recoveries Duplicate RPD:	12.74%
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: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS 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: Sample Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample 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:

*The method blank result is below the reporting limit for this analysis and is acceptable.

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Handwritten signature

March 26, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2020 and March 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Lauren Petty, Southern Company Services, Inc.
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2629733001	BRGWA-12S	Water	03/03/20 15:22	03/04/20 10:45
2629733002	BRGWA-12I	Water	03/03/20 17:15	03/04/20 10:45
2629733003	BRGWA-23S	Water	03/04/20 11:20	03/05/20 15:30
2629733004	BRGWC-47	Water	03/04/20 11:28	03/05/20 15:30
2629733005	FB-1	Water	03/04/20 10:55	03/05/20 15:30
2629733006	EB-1	Water	03/04/20 11:11	03/05/20 15:30
2629733007	BRGWC-27I	Water	03/04/20 12:46	03/05/20 15:30
2629733008	BRGWC-50	Water	03/04/20 13:33	03/05/20 15:30
2629733009	BRGWC-25I	Water	03/04/20 14:25	03/05/20 15:30
2629733010	BRGWC-52I	Water	03/04/20 15:10	03/05/20 15:30
2629733011	DUP-1	Water	03/04/20 00:00	03/05/20 15:30
2629733012	DUP-2	Water	03/04/20 00:00	03/05/20 15:30
2629733013	EB-2	Water	03/04/20 16:03	03/05/20 15:30
2629733014	BRGWC-29I	Water	03/04/20 16:05	03/05/20 15:30
2629733015	BRGWC-30I	Water	03/05/20 09:10	03/06/20 09:45
2629733016	BRGWC-32S	Water	03/05/20 10:25	03/06/20 09:45
2629733017	BRGWC-45	Water	03/05/20 16:05	03/06/20 09:45
2629733018	EB-3	Water	03/05/20 15:30	03/06/20 09:45
2629733019	FB-3	Water	03/05/20 13:00	03/06/20 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629733001	BRGWA-12S	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2629733002	BRGWA-12I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2629733003	BRGWA-23S	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733004	BRGWC-47	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733005	FB-1	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733006	EB-1	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733007	BRGWC-27I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733008	BRGWC-50	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733009	BRGWC-25I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733010	BRGWC-52I	EPA 6010D	DRB	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629733011	DUP-1	EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629733012	DUP-2	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2629733013	EB-2	EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629733014	BRGWC-29I	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2629733015	BRGWC-30I	EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629733016	BRGWC-32S	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2629733017	BRGWC-45	EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629733018	EB-3	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
2629733019	FB-3	EPA 6020B	CSW	12	PASI-GA
		EPA 6010D	KLH	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629733001	BRGWA-12S					
	Field pH	5.94	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	6.8	mg/L	0.50	03/11/20 18:31	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/10/20 20:27	
EPA 6020B	Barium	0.060	mg/L	0.010	03/10/20 20:27	
EPA 6020B	Boron	0.0065J	mg/L	0.10	03/10/20 20:27	
EPA 6020B	Chromium	0.0028J	mg/L	0.010	03/10/20 20:27	
SM 2540C	Total Dissolved Solids	72.0	mg/L	10.0	03/06/20 12:46	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/07/20 16:02	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	03/07/20 16:02	
2629733002	BRGWA-12I					
	Field pH	6.33	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	19.4	mg/L	0.50	03/11/20 18:34	
EPA 6020B	Antimony	0.0063	mg/L	0.0030	03/10/20 20:50	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	03/10/20 20:50	
EPA 6020B	Barium	0.076	mg/L	0.010	03/10/20 20:50	
EPA 6020B	Boron	0.010J	mg/L	0.10	03/10/20 20:50	
EPA 6020B	Chromium	0.0026J	mg/L	0.010	03/10/20 20:50	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	03/10/20 20:50	
SM 2540C	Total Dissolved Solids	115	mg/L	10.0	03/06/20 12:46	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/07/20 16:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.30	03/07/20 16:46	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	03/07/20 16:46	
2629733003	BRGWA-23S					
	Field pH	5.7	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	11.5	mg/L	0.50	03/11/20 22:00	
EPA 6020B	Barium	0.087	mg/L	0.010	03/12/20 21:20	
EPA 6020B	Boron	0.044J	mg/L	0.10	03/12/20 21:20	
EPA 6020B	Chromium	0.0019J	mg/L	0.010	03/12/20 21:20	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	03/12/20 21:20	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	03/12/20 21:20	
EPA 6020B	Selenium	0.0019J	mg/L	0.010	03/12/20 21:20	
SM 2540C	Total Dissolved Solids	118	mg/L	10.0	03/11/20 11:14	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/12/20 22:41	
EPA 300.0 Rev 2.1 1993	Sulfate	38.6	mg/L	1.0	03/12/20 22:41	
2629733004	BRGWC-47					
	Field pH	5.76	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	353	mg/L	5.0	03/13/20 19:08	
EPA 6020B	Arsenic	0.00049J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Barium	0.038	mg/L	0.010	03/12/20 21:26	
EPA 6020B	Boron	0.49	mg/L	0.10	03/12/20 21:26	
EPA 6020B	Cadmium	0.00024J	mg/L	0.0025	03/12/20 21:26	
EPA 6020B	Chromium	0.00078J	mg/L	0.010	03/12/20 21:26	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Lead	0.00012J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Lithium	0.042	mg/L	0.030	03/12/20 21:26	
SM 2540C	Total Dissolved Solids	2140	mg/L	10.0	03/11/20 11:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629733004	BRGWC-47					
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	03/12/20 22:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1380	mg/L	25.0	03/13/20 13:57	
2629733007	BRGWC-271					
	Field pH	5.8	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	72.3	mg/L	0.50	03/11/20 22:14	
EPA 6020B	Barium	0.015	mg/L	0.010	03/12/20 21:43	
EPA 6020B	Beryllium	0.00012J	mg/L	0.0030	03/12/20 21:43	
EPA 6020B	Boron	0.81	mg/L	0.10	03/12/20 21:43	
EPA 6020B	Cobalt	0.0080	mg/L	0.0050	03/12/20 21:43	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	03/12/20 21:43	
EPA 6020B	Selenium	0.0022J	mg/L	0.010	03/12/20 21:43	
SM 2540C	Total Dissolved Solids	326	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.1	mg/L	1.0	03/12/20 23:41	
EPA 300.0 Rev 2.1 1993	Sulfate	205	mg/L	4.0	03/13/20 14:17	
2629733008	BRGWC-50					
	Field pH	5.2	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	245	mg/L	0.50	03/11/20 22:18	
EPA 6020B	Arsenic	0.00046J	mg/L	0.0050	03/12/20 21:49	
EPA 6020B	Barium	0.019	mg/L	0.010	03/12/20 21:49	
EPA 6020B	Beryllium	0.0052	mg/L	0.0030	03/12/20 21:49	
EPA 6020B	Boron	0.32	mg/L	0.10	03/12/20 21:49	
EPA 6020B	Cadmium	0.013	mg/L	0.0025	03/12/20 21:49	
EPA 6020B	Chromium	0.00071J	mg/L	0.010	03/12/20 21:49	
EPA 6020B	Cobalt	1.5	mg/L	0.050	03/13/20 13:39	
EPA 6020B	Lead	0.00010J	mg/L	0.0050	03/12/20 21:49	
EPA 6020B	Lithium	0.042	mg/L	0.030	03/12/20 21:49	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	03/12/20 21:49	
SM 2540C	Total Dissolved Solids	2270	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	21.6	mg/L	1.0	03/12/20 23:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14J	mg/L	0.30	03/12/20 23:55	
EPA 300.0 Rev 2.1 1993	Sulfate	1370	mg/L	25.0	03/13/20 14:38	
2629733009	BRGWC-251					
	Field pH	6.02	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	52.0	mg/L	0.50	03/11/20 22:21	
EPA 6020B	Barium	0.026	mg/L	0.010	03/12/20 21:54	
EPA 6020B	Boron	1.2	mg/L	0.10	03/12/20 21:54	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	03/12/20 21:54	
SM 2540C	Total Dissolved Solids	330	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/13/20 00:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.30	03/13/20 00:10	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	3.0	03/13/20 14:58	
2629733010	BRGWC-521					
	Field pH	6.54	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	49.5	mg/L	0.50	03/11/20 22:24	
EPA 6020B	Antimony	0.00043J	mg/L	0.0030	03/12/20 22:11	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629733010	BRGWC-52I					
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	03/12/20 22:11	
EPA 6020B	Barium	0.022	mg/L	0.010	03/12/20 22:11	
EPA 6020B	Boron	1.4	mg/L	0.10	03/12/20 22:11	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	03/12/20 22:11	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/13/20 00:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10J	mg/L	0.30	03/13/20 00:25	
EPA 300.0 Rev 2.1 1993	Sulfate	129	mg/L	3.0	03/13/20 15:20	
2629733011	DUP-1					
EPA 6010D	Calcium	71.4	mg/L	0.50	03/11/20 22:28	
EPA 6020B	Barium	0.016	mg/L	0.010	03/12/20 22:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.0030	03/12/20 22:17	
EPA 6020B	Boron	0.82	mg/L	0.10	03/12/20 22:17	
EPA 6020B	Chromium	0.00058J	mg/L	0.010	03/12/20 22:17	
EPA 6020B	Cobalt	0.0079	mg/L	0.0050	03/12/20 22:17	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	03/12/20 22:17	
EPA 6020B	Selenium	0.0022J	mg/L	0.010	03/12/20 22:17	
SM 2540C	Total Dissolved Solids	283	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.1	mg/L	1.0	03/13/20 01:24	
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	4.0	03/13/20 15:42	
2629733012	DUP-2					
EPA 6010D	Calcium	49.2	mg/L	0.50	03/11/20 22:32	
EPA 6020B	Antimony	0.00029J	mg/L	0.0030	03/12/20 22:23	B
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	03/12/20 22:23	
EPA 6020B	Barium	0.022	mg/L	0.010	03/12/20 22:23	
EPA 6020B	Boron	1.4	mg/L	0.10	03/12/20 22:23	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/12/20 22:23	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/12/20 22:23	
SM 2540C	Total Dissolved Solids	126	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/13/20 02:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16J	mg/L	0.30	03/13/20 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	03/13/20 17:14	
2629733013	EB-2					
EPA 6020B	Boron	0.0063J	mg/L	0.10	03/12/20 22:29	
EPA 6020B	Chromium	0.0049J	mg/L	0.010	03/12/20 22:29	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	03/12/20 22:29	
SM 2540C	Total Dissolved Solids	11.0	mg/L	10.0	03/11/20 16:02	
2629733014	BRGWC-29I					
	Field pH	4.5	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	59.3	mg/L	0.50	03/11/20 22:45	
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Barium	0.018	mg/L	0.010	03/12/20 22:34	
EPA 6020B	Beryllium	0.00073J	mg/L	0.0030	03/12/20 22:34	
EPA 6020B	Boron	1.1	mg/L	0.10	03/12/20 22:34	
EPA 6020B	Chromium	0.020	mg/L	0.010	03/12/20 22:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629733014	BRGWC-29I					
EPA 6020B	Cobalt	0.0070	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Lead	0.00030J	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	03/12/20 22:34	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	03/12/20 22:34	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	03/12/20 22:34	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.8	mg/L	1.0	03/13/20 02:38	
EPA 300.0 Rev 2.1 1993	Sulfate	238	mg/L	5.0	03/13/20 17:36	
2629733015	BRGWC-30I					
	Field pH	5.99	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	119	mg/L	0.50	03/11/20 22:49	
EPA 6020B	Barium	0.025	mg/L	0.010	03/16/20 14:38	
EPA 6020B	Boron	1.5	mg/L	0.10	03/16/20 14:38	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/16/20 14:38	
EPA 6020B	Lithium	0.016J	mg/L	0.030	03/16/20 14:38	
SM 2540C	Total Dissolved Solids	681	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/13/20 02:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.30	03/13/20 02:53	
EPA 300.0 Rev 2.1 1993	Sulfate	369	mg/L	7.0	03/13/20 17:57	
2629733016	BRGWC-32S					
	Field pH	5.74	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	52.1	mg/L	0.50	03/11/20 22:52	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/16/20 15:01	
EPA 6020B	Barium	0.026	mg/L	0.010	03/16/20 15:01	
EPA 6020B	Boron	1.5	mg/L	0.10	03/16/20 15:01	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/16/20 15:01	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	03/16/20 15:01	
EPA 6020B	Selenium	0.10	mg/L	0.010	03/16/20 15:01	
SM 2540C	Total Dissolved Solids	489	mg/L	10.0	03/11/20 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	03/13/20 03:07	
EPA 300.0 Rev 2.1 1993	Sulfate	269	mg/L	5.0	03/13/20 18:18	
2629733017	BRGWC-45					
	Field pH	5.95	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	37.9	mg/L	0.50	03/18/20 18:40	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	03/16/20 15:06	
EPA 6020B	Barium	0.078	mg/L	0.010	03/16/20 15:06	
EPA 6020B	Boron	0.044J	mg/L	0.10	03/16/20 15:06	
EPA 6020B	Chromium	0.00053J	mg/L	0.010	03/16/20 15:06	
EPA 6020B	Cobalt	0.0091	mg/L	0.0050	03/16/20 15:06	
EPA 6020B	Lead	0.00026J	mg/L	0.0050	03/16/20 15:06	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	03/16/20 15:06	
SM 2540C	Total Dissolved Solids	297	mg/L	10.0	03/12/20 12:57	
EPA 300.0 Rev 2.1 1993	Chloride	37.1	mg/L	1.0	03/13/20 03:22	
EPA 300.0 Rev 2.1 1993	Sulfate	106	mg/L	2.0	03/13/20 18:39	

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733018	EB-3					
EPA 6020B	Boron	0.0051J	mg/L	0.10	03/16/20 15:12	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWA-12S		Lab ID: 2629733001		Collected: 03/03/20 15:22		Received: 03/04/20 10:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.94	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	6.8	mg/L	0.50	0.14	1	03/10/20 18:00	03/11/20 18:31	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/05/20 22:25	03/10/20 20:27	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00035	1	03/05/20 22:25	03/10/20 20:27	7440-38-2	
Barium	0.060	mg/L	0.010	0.00049	1	03/05/20 22:25	03/10/20 20:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/05/20 22:25	03/10/20 20:27	7440-41-7	
Boron	0.0065J	mg/L	0.10	0.0049	1	03/05/20 22:25	03/10/20 20:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/05/20 22:25	03/10/20 20:27	7440-43-9	
Chromium	0.0028J	mg/L	0.010	0.00039	1	03/05/20 22:25	03/10/20 20:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/05/20 22:25	03/10/20 20:27	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/05/20 22:25	03/10/20 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/05/20 22:25	03/10/20 20:27	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/05/20 22:25	03/10/20 20:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/05/20 22:25	03/10/20 20:27	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	72.0	mg/L	10.0	10.0	1		03/06/20 12:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	3.2	mg/L	1.0	0.60	1		03/07/20 16:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/07/20 16:02	16984-48-8	M1
Sulfate	0.51J	mg/L	1.0	0.50	1		03/07/20 16:02	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWA-12I		Lab ID: 2629733002		Collected: 03/03/20 17:15		Received: 03/04/20 10:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.33	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	19.4	mg/L	0.50	0.14	1	03/10/20 18:00	03/11/20 18:34	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0063	mg/L	0.0030	0.00027	1	03/05/20 22:25	03/10/20 20:50	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.00035	1	03/05/20 22:25	03/10/20 20:50	7440-38-2	
Barium	0.076	mg/L	0.010	0.00049	1	03/05/20 22:25	03/10/20 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/05/20 22:25	03/10/20 20:50	7440-41-7	
Boron	0.010J	mg/L	0.10	0.0049	1	03/05/20 22:25	03/10/20 20:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/05/20 22:25	03/10/20 20:50	7440-43-9	
Chromium	0.0026J	mg/L	0.010	0.00039	1	03/05/20 22:25	03/10/20 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/05/20 22:25	03/10/20 20:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/05/20 22:25	03/10/20 20:50	7439-92-1	
Lithium	0.0033J	mg/L	0.030	0.00078	1	03/05/20 22:25	03/10/20 20:50	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/05/20 22:25	03/10/20 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/05/20 22:25	03/10/20 20:50	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	115	mg/L	10.0	10.0	1		03/06/20 12:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.6	mg/L	1.0	0.60	1		03/07/20 16:46	16887-00-6	
Fluoride	0.056J	mg/L	0.30	0.050	1		03/07/20 16:46	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.50	1		03/07/20 16:46	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWA-23S		Lab ID: 2629733003		Collected: 03/04/20 11:20		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	5.7	Std. Units			1		03/26/20 14:34		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	11.5	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:00	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:20	7440-38-2	
Barium	0.087	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:20	7440-41-7	
Boron	0.044J	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:20	7440-43-9	
Chromium	0.0019J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:20	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:20	7439-92-1	
Lithium	0.0074J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:20	7439-93-2	
Selenium	0.0019J	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:20	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	118	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	3.3	mg/L	1.0	0.60	1		03/12/20 22:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:41	16984-48-8	
Sulfate	38.6	mg/L	1.0	0.50	1		03/12/20 22:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWC-47		Lab ID: 2629733004		Collected: 03/04/20 11:28		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.76	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	353	mg/L	5.0	1.4	10	03/10/20 18:30	03/13/20 19:08	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:26	7440-36-0	
Arsenic	0.00049J	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:26	7440-38-2	
Barium	0.038	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:26	7440-41-7	
Boron	0.49	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:26	7440-42-8	
Cadmium	0.00024J	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:26	7440-43-9	
Chromium	0.00078J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:26	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:26	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:26	7439-92-1	
Lithium	0.042	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:26	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:26	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	2140	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	4.2	mg/L	1.0	0.60	1		03/12/20 22:56	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:56	16984-48-8	
Sulfate	1380	mg/L	25.0	12.5	25		03/13/20 13:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: FB-1		Lab ID: 2629733005		Collected: 03/04/20 10:55		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:07	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:31	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:31	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:31	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:31	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:31	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:31	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 23:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 23:11	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-1		Lab ID: 2629733006		Collected: 03/04/20 11:11		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:10	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:37	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:37	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:37	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:37	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:37	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:37	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 23:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 23:26	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWC-271		Lab ID: 2629733007		Collected: 03/04/20 12:46		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.8	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	72.3	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:14	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:43	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:43	7440-39-3	
Beryllium	0.00012J	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:43	7440-41-7	
Boron	0.81	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:43	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:43	7440-47-3	
Cobalt	0.0080	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:43	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:43	7439-93-2	
Selenium	0.0022J	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:43	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	326	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	5.1	mg/L	1.0	0.60	1		03/12/20 23:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:41	16984-48-8	
Sulfate	205	mg/L	4.0	2.0	4		03/13/20 14:17	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-50		Lab ID: 2629733008		Collected: 03/04/20 13:33		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.2	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	245	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:18	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:49	7440-36-0	
Arsenic	0.00046J	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:49	7440-38-2	
Barium	0.019	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:49	7440-39-3	
Beryllium	0.0052	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:49	7440-41-7	
Boron	0.32	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:49	7440-42-8	
Cadmium	0.013	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:49	7440-43-9	
Chromium	0.00071J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:49	7440-47-3	
Cobalt	1.5	mg/L	0.050	0.0030	10	03/11/20 19:35	03/13/20 13:39	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:49	7439-92-1	
Lithium	0.042	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:49	7439-93-2	
Selenium	0.0026J	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:49	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	2270	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	21.6	mg/L	1.0	0.60	1		03/12/20 23:55	16887-00-6	
Fluoride	0.14J	mg/L	0.30	0.050	1		03/12/20 23:55	16984-48-8	
Sulfate	1370	mg/L	25.0	12.5	25		03/13/20 14:38	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-25I		Lab ID: 2629733009		Collected: 03/04/20 14:25		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	6.02	Std. Units			1		03/26/20 14:34		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	52.0	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:21	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:54	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:54	7440-41-7	
Boron	1.2	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:54	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:54	7440-47-3	
Cobalt	0.0039J	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:54	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:54	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:54	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	330	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	5.0	mg/L	1.0	0.60	1		03/13/20 00:10	16887-00-6	
Fluoride	0.070J	mg/L	0.30	0.050	1		03/13/20 00:10	16984-48-8	
Sulfate	165	mg/L	3.0	1.5	3		03/13/20 14:58	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWC-52I		Lab ID: 2629733010		Collected: 03/04/20 15:10		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.54	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	49.5	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:24	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00043J	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:11	7440-36-0	B
Arsenic	0.0047J	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:11	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:11	7440-41-7	
Boron	1.4	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:11	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:11	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:11	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:11	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:11	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:11	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	351	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	6.1	mg/L	1.0	0.60	1		03/13/20 00:25	16887-00-6	
Fluoride	0.10J	mg/L	0.30	0.050	1		03/13/20 00:25	16984-48-8	
Sulfate	129	mg/L	3.0	1.5	3		03/13/20 15:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: DUP-1		Lab ID: 2629733011		Collected: 03/04/20 00:00		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	71.4	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:28	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:17	7440-38-2	
Barium	0.016	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:17	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:17	7440-41-7	
Boron	0.82	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:17	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:17	7440-43-9	
Chromium	0.00058J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:17	7440-47-3	
Cobalt	0.0079	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:17	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:17	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:17	7439-93-2	
Selenium	0.0022J	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:17	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	283	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	5.1	mg/L	1.0	0.60	1		03/13/20 01:24	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 01:24	16984-48-8	M1
Sulfate	199	mg/L	4.0	2.0	4		03/13/20 15:42	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: DUP-2		Lab ID: 2629733012		Collected: 03/04/20 00:00		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	49.2	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:32	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.00029J	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:23	7440-36-0	B
Arsenic	0.0044J	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:23	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:23	7440-41-7	
Boron	1.4	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:23	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:23	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:23	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:23	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:23	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	126	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	6.1	mg/L	1.0	0.60	1		03/13/20 02:08	16887-00-6	
Fluoride	0.16J	mg/L	0.30	0.050	1		03/13/20 02:08	16984-48-8	
Sulfate	131	mg/L	3.0	1.5	3		03/13/20 17:14	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-2		Lab ID: 2629733013		Collected: 03/04/20 16:03		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:42	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:29	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:29	7440-41-7	
Boron	0.0063J	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:29	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:29	7440-43-9	
Chromium	0.0049J	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:29	7440-48-4	
Lead	0.000053J	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:29	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:29	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	11.0	mg/L	10.0	10.0	1		03/11/20 16:02		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 02:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 02:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 02:23	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-29I		Lab ID: 2629733014		Collected: 03/04/20 16:05		Received: 03/05/20 15:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	4.5	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	59.3	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:45	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:34	7440-36-0	
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:34	7440-38-2	
Barium	0.018	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:34	7440-39-3	
Beryllium	0.00073J	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:34	7440-41-7	
Boron	1.1	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:34	7440-43-9	
Chromium	0.020	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:34	7440-47-3	
Cobalt	0.0070	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:34	7440-48-4	
Lead	0.00030J	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:34	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:34	7439-93-2	
Selenium	0.0018J	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:34	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:34	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	391	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	5.8	mg/L	1.0	0.60	1		03/13/20 02:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 02:38	16984-48-8	
Sulfate	238	mg/L	5.0	2.5	5		03/13/20 17:36	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWC-30I		Lab ID: 2629733015		Collected: 03/05/20 09:10		Received: 03/06/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	5.99	Std. Units			1		03/26/20 14:34		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	119	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:49	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 14:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 14:38	7440-38-2	
Barium	0.025	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 14:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 14:38	7440-41-7	
Boron	1.5	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 14:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 14:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 14:38	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 14:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 14:38	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 14:38	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 14:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 14:38	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	681	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	4.3	mg/L	1.0	0.60	1		03/13/20 02:53	16887-00-6	
Fluoride	0.051J	mg/L	0.30	0.050	1		03/13/20 02:53	16984-48-8	
Sulfate	369	mg/L	7.0	3.5	7		03/13/20 17:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: BRGWC-32S		Lab ID: 2629733016		Collected: 03/05/20 10:25		Received: 03/06/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.74	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	52.1	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:52	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0014J	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:01	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:01	7440-41-7	
Boron	1.5	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:01	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:01	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:01	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:01	7439-93-2	
Selenium	0.10	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:01	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	489	mg/L	10.0	10.0	1		03/11/20 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	6.0	mg/L	1.0	0.60	1		03/13/20 03:07	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:07	16984-48-8	
Sulfate	269	mg/L	5.0	2.5	5		03/13/20 18:18	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-45		Lab ID: 2629733017		Collected: 03/05/20 16:05		Received: 03/06/20 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.95	Std. Units			1		03/26/20 14:34		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	37.9	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 18:40	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0016J	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:06	7440-38-2	
Barium	0.078	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:06	7440-41-7	
Boron	0.044J	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:06	7440-43-9	
Chromium	0.00053J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:06	7440-47-3	
Cobalt	0.0091	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:06	7440-48-4	
Lead	0.00026J	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:06	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:06	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:06	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	297	mg/L	10.0	10.0	1		03/12/20 12:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	37.1	mg/L	1.0	0.60	1		03/13/20 03:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:22	16984-48-8	
Sulfate	106	mg/L	2.0	1.0	2		03/13/20 18:39	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-3		Lab ID: 2629733018		Collected: 03/05/20 15:30		Received: 03/06/20 09:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 19:01	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:12	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:12	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:12	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:12	7440-41-7		
Boron	0.0051J	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:12	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:12	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:12	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:12	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:12	7439-93-2		
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:12	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:58			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 03:37	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:37	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 03:37	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Sample: FB-3		Lab ID: 2629733019		Collected: 03/05/20 13:00	Received: 03/06/20 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 19:04	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:18	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:18	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:18	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:18	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:58		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 04:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 04:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 04:21	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

QC Batch: 44425

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 203825

Matrix: Water

Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/11/20 17:22	

LABORATORY CONTROL SAMPLE: 203826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203827 203828

Parameter	Units	203827		203828		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	5.3	1	1	6.6	6.3	129	101	75-125	4	20 M1

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44427 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016

METHOD BLANK: 203834 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/11/20 21:07	

LABORATORY CONTROL SAMPLE: 203835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203836 203837

Parameter	Units	2629765017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	69.8	1	1	70.2	71.5	34	170	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

QC Batch: 44482 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Associated Lab Samples: 2629733017, 2629733018, 2629733019

METHOD BLANK: 204090 Matrix: Water

Associated Lab Samples: 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/18/20 18:33	

LABORATORY CONTROL SAMPLE: 204091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204092 204093

Parameter	Units	204092		204093		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629733017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Calcium	mg/L	37.9	1	1	38.6	39.1	76	118	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44282 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 202999 Matrix: Water
Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/10/20 20:16	
Arsenic	mg/L	ND	0.0050	0.00035	03/10/20 20:16	
Barium	mg/L	ND	0.010	0.00049	03/10/20 20:16	
Beryllium	mg/L	ND	0.0030	0.000074	03/10/20 20:16	
Boron	mg/L	ND	0.10	0.0049	03/10/20 20:16	
Cadmium	mg/L	ND	0.0025	0.00011	03/10/20 20:16	
Chromium	mg/L	ND	0.010	0.00039	03/10/20 20:16	
Cobalt	mg/L	ND	0.0050	0.00030	03/10/20 20:16	
Lead	mg/L	ND	0.0050	0.000046	03/10/20 20:16	
Lithium	mg/L	ND	0.030	0.00078	03/10/20 20:16	
Selenium	mg/L	ND	0.010	0.0013	03/10/20 20:16	
Thallium	mg/L	ND	0.0010	0.000052	03/10/20 20:16	

LABORATORY CONTROL SAMPLE: 203000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203001 203002

Parameter	Units	2629733001		203002		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.11	0.11	111	110	75-125	1	20	
Arsenic	mg/L	0.0015J	0.1	0.11	0.11	106	105	75-125	1	20	
Barium	mg/L	0.060	0.1	0.17	0.18	115	116	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.10	0.10	101	100	75-125	0	20	
Boron	mg/L	0.0065J	1	1.0	1.0	102	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Parameter	Units	203001		203002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2629733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	0	20	
Chromium	mg/L	0.0028J	0.1	0.1	0.11	0.11	112	107	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.11	0.10	108	105	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.10	107	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44486 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014

METHOD BLANK: 204134 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00041J	0.0030	0.00027	03/12/20 19:54	
Arsenic	mg/L	ND	0.0050	0.00035	03/12/20 19:54	
Barium	mg/L	ND	0.010	0.00049	03/12/20 19:54	
Beryllium	mg/L	ND	0.0030	0.000074	03/12/20 19:54	
Boron	mg/L	ND	0.10	0.0049	03/12/20 19:54	
Cadmium	mg/L	ND	0.0025	0.00011	03/12/20 19:54	
Chromium	mg/L	ND	0.010	0.00039	03/12/20 19:54	
Cobalt	mg/L	ND	0.0050	0.00030	03/12/20 19:54	
Lead	mg/L	ND	0.0050	0.000046	03/12/20 19:54	
Lithium	mg/L	ND	0.030	0.00078	03/12/20 19:54	
Selenium	mg/L	ND	0.010	0.0013	03/12/20 19:54	
Thallium	mg/L	ND	0.0010	0.000052	03/12/20 19:54	

LABORATORY CONTROL SAMPLE: 204135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	103	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	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204136 204137

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629703017 Result	Spike Conc.	Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	110	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Barium	mg/L	0.77	0.1	0.1	0.88	0.91	104	136	75-125	4	20	M1	
Beryllium	mg/L	0.00014J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Parameter	Units	204136		204137		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Boron	mg/L	0.14	1	1	1.1	1.1	94	95	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	107	105	75-125	1	20		
Chromium	mg/L	0.0027J	0.1	0.1	0.11	0.11	106	103	75-125	3	20		
Cobalt	mg/L	0.00093J	0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Lead	mg/L	0.0010J	0.1	0.1	0.099	0.10	98	99	75-125	1	20		
Lithium	mg/L	0.015J	0.1	0.1	0.11	0.11	94	96	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.079	0.078	79	77	75-125	2	20		
Thallium	mg/L	0.000092J	0.1	0.1	0.099	0.10	99	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44487 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

METHOD BLANK: 204143 Matrix: Water
Associated Lab Samples: 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/16/20 14:26	
Arsenic	mg/L	0.00036J	0.0050	0.00035	03/16/20 14:26	
Barium	mg/L	ND	0.010	0.00049	03/16/20 14:26	
Beryllium	mg/L	ND	0.0030	0.000074	03/16/20 14:26	
Boron	mg/L	ND	0.10	0.0049	03/16/20 14:26	
Cadmium	mg/L	ND	0.0025	0.00011	03/16/20 14:26	
Chromium	mg/L	ND	0.010	0.00039	03/16/20 14:26	
Cobalt	mg/L	ND	0.0050	0.00030	03/16/20 14:26	
Lead	mg/L	ND	0.0050	0.000046	03/16/20 14:26	
Lithium	mg/L	ND	0.030	0.00078	03/16/20 14:26	
Selenium	mg/L	ND	0.010	0.0013	03/16/20 14:26	
Thallium	mg/L	ND	0.0010	0.000052	03/16/20 14:26	

LABORATORY CONTROL SAMPLE: 204144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	100	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	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204145 204146

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2629733015 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	4	20	
Barium	mg/L	0.025	0.1	0.1	0.13	0.12	102	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	4	20	
Boron	mg/L	1.5	1	1	2.6	2.4	112	94	75-125	7	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:				204145		204146		% Rec Limits	RPD	Max RPD	Qual
		2629733015	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.096	97	95	75-125	2	20		
Cobalt	mg/L	0.0011J	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	0.016J	0.1	0.1	0.12	0.11	99	93	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20		

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

QC Batch:	44309	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	2629733001, 2629733002		

LABORATORY CONTROL SAMPLE: 203157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 203158

Parameter	Units	2629679001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	49.0	6	10	

SAMPLE DUPLICATE: 203159

Parameter	Units	2629766004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	63.0	67.0	6	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch:	44453	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012		

LABORATORY CONTROL SAMPLE: 203948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	84-108	

SAMPLE DUPLICATE: 203949

Parameter	Units	2629751001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	337	344	2	10	

SAMPLE DUPLICATE: 203950

Parameter	Units	2629733003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	119	1	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

QC Batch: 44470 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629733013, 2629733014, 2629733015, 2629733016

LABORATORY CONTROL SAMPLE: 204029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	84-108	

SAMPLE DUPLICATE: 204030

Parameter	Units	2629733013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11.0	10.0	10	10	

SAMPLE DUPLICATE: 204031

Parameter	Units	2629884001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	152	167	9	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

QC Batch: 44505 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629733017, 2629733018, 2629733019

LABORATORY CONTROL SAMPLE: 204334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	84-108	

SAMPLE DUPLICATE: 204335

Parameter	Units	2629733017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	314	6	10	

SAMPLE DUPLICATE: 204336

Parameter	Units	2629734014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	457	455	0	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 529130 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 2826277 Matrix: Water
Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/07/20 11:50	
Fluoride	mg/L	ND	0.10	0.050	03/07/20 11:50	
Sulfate	mg/L	ND	1.0	0.50	03/07/20 11:50	

LABORATORY CONTROL SAMPLE: 2826278

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	2.3	91	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2826279 2826280

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92468399001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.3	50	50	54.6	51.8	102	97	90-110	5	10		
Fluoride	mg/L	ND	2.5	2.5	2.1	2.0	81	76	90-110	6	10	M1	
Sulfate	mg/L	10	50	50	60.0	57.2	100	94	90-110	5	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2826281 2826282

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629733001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.2	50	50	52.6	53.3	99	100	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.1	2.1	82	85	90-110	3	10	M1	
Sulfate	mg/L	0.51J	50	50	48.9	49.4	97	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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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 529972 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

METHOD BLANK: 2830385 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/20 08:37	
Fluoride	mg/L	ND	0.10	0.050	03/13/20 08:37	
Sulfate	mg/L	ND	1.0	0.50	03/13/20 08:37	

LABORATORY CONTROL SAMPLE: 2830386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.5	105	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830387 2830388

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92468702015 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	45.5	50	50	95.4	95.2	100	99	90-110	0	10
Fluoride	mg/L	1.5	2.5	2.5	3.5	3.6	82	87	90-110	4	10 M1
Sulfate	mg/L	1690	50	50	1760	1780	126	179	90-110	2	10 M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830389 2830390

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629733011 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	5.1	50	50	56.2	55.3	102	100	90-110	2	10
Fluoride	mg/L	ND	2.5	2.5	1.5	1.6	60	62	90-110	4	10 M1
Sulfate	mg/L	199	50	50	246	244	94	90	90-110	1	10

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT BRANCH AP-BCD 2ND SA

Pace Project No.: 2629733

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629733001	BRGWA-12S				
2629733002	BRGWA-12I				
2629733003	BRGWA-23S				
2629733004	BRGWC-47				
2629733007	BRGWC-27I				
2629733008	BRGWC-50				
2629733009	BRGWC-25I				
2629733010	BRGWC-52I				
2629733014	BRGWC-29I				
2629733015	BRGWC-30I				
2629733016	BRGWC-32S				
2629733017	BRGWC-45				
2629733001	BRGWA-12S	EPA 3010A	44425	EPA 6010D	44437
2629733002	BRGWA-12I	EPA 3010A	44425	EPA 6010D	44437
2629733003	BRGWA-23S	EPA 3010A	44427	EPA 6010D	44443
2629733004	BRGWC-47	EPA 3010A	44427	EPA 6010D	44443
2629733005	FB-1	EPA 3010A	44427	EPA 6010D	44443
2629733006	EB-1	EPA 3010A	44427	EPA 6010D	44443
2629733007	BRGWC-27I	EPA 3010A	44427	EPA 6010D	44443
2629733008	BRGWC-50	EPA 3010A	44427	EPA 6010D	44443
2629733009	BRGWC-25I	EPA 3010A	44427	EPA 6010D	44443
2629733010	BRGWC-52I	EPA 3010A	44427	EPA 6010D	44443
2629733011	DUP-1	EPA 3010A	44427	EPA 6010D	44443
2629733012	DUP-2	EPA 3010A	44427	EPA 6010D	44443
2629733013	EB-2	EPA 3010A	44427	EPA 6010D	44443
2629733014	BRGWC-29I	EPA 3010A	44427	EPA 6010D	44443
2629733015	BRGWC-30I	EPA 3010A	44427	EPA 6010D	44443
2629733016	BRGWC-32S	EPA 3010A	44427	EPA 6010D	44443
2629733017	BRGWC-45	EPA 3010A	44482	EPA 6010D	44490
2629733018	EB-3	EPA 3010A	44482	EPA 6010D	44490
2629733019	FB-3	EPA 3010A	44482	EPA 6010D	44490
2629733001	BRGWA-12S	EPA 3005A	44282	EPA 6020B	44315
2629733002	BRGWA-12I	EPA 3005A	44282	EPA 6020B	44315
2629733003	BRGWA-23S	EPA 3005A	44486	EPA 6020B	44510
2629733004	BRGWC-47	EPA 3005A	44486	EPA 6020B	44510
2629733005	FB-1	EPA 3005A	44486	EPA 6020B	44510
2629733006	EB-1	EPA 3005A	44486	EPA 6020B	44510
2629733007	BRGWC-27I	EPA 3005A	44486	EPA 6020B	44510
2629733008	BRGWC-50	EPA 3005A	44486	EPA 6020B	44510
2629733009	BRGWC-25I	EPA 3005A	44486	EPA 6020B	44510
2629733010	BRGWC-52I	EPA 3005A	44486	EPA 6020B	44510
2629733011	DUP-1	EPA 3005A	44486	EPA 6020B	44510
2629733012	DUP-2	EPA 3005A	44486	EPA 6020B	44510
2629733013	EB-2	EPA 3005A	44486	EPA 6020B	44510
2629733014	BRGWC-29I	EPA 3005A	44486	EPA 6020B	44510
2629733015	BRGWC-30I	EPA 3005A	44487	EPA 6020B	44511

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629733016	BRGWC-32S	EPA 3005A	44487	EPA 6020B	44511
2629733017	BRGWC-45	EPA 3005A	44487	EPA 6020B	44511
2629733018	EB-3	EPA 3005A	44487	EPA 6020B	44511
2629733019	FB-3	EPA 3005A	44487	EPA 6020B	44511
2629733001	BRGWA-12S	SM 2540C	44309		
2629733002	BRGWA-12I	SM 2540C	44309		
2629733003	BRGWA-23S	SM 2540C	44453		
2629733004	BRGWC-47	SM 2540C	44453		
2629733005	FB-1	SM 2540C	44453		
2629733006	EB-1	SM 2540C	44453		
2629733007	BRGWC-27I	SM 2540C	44453		
2629733008	BRGWC-50	SM 2540C	44453		
2629733009	BRGWC-25I	SM 2540C	44453		
2629733010	BRGWC-52I	SM 2540C	44453		
2629733011	DUP-1	SM 2540C	44453		
2629733012	DUP-2	SM 2540C	44453		
2629733013	EB-2	SM 2540C	44470		
2629733014	BRGWC-29I	SM 2540C	44470		
2629733015	BRGWC-30I	SM 2540C	44470		
2629733016	BRGWC-32S	SM 2540C	44470		
2629733017	BRGWC-45	SM 2540C	44505		
2629733018	EB-3	SM 2540C	44505		
2629733019	FB-3	SM 2540C	44505		
2629733001	BRGWA-12S	EPA 300.0 Rev 2.1 1993	529130		
2629733002	BRGWA-12I	EPA 300.0 Rev 2.1 1993	529130		
2629733003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	529972		
2629733004	BRGWC-47	EPA 300.0 Rev 2.1 1993	529972		
2629733005	FB-1	EPA 300.0 Rev 2.1 1993	529972		
2629733006	EB-1	EPA 300.0 Rev 2.1 1993	529972		
2629733007	BRGWC-27I	EPA 300.0 Rev 2.1 1993	529972		
2629733008	BRGWC-50	EPA 300.0 Rev 2.1 1993	529972		
2629733009	BRGWC-25I	EPA 300.0 Rev 2.1 1993	529972		
2629733010	BRGWC-52I	EPA 300.0 Rev 2.1 1993	529972		
2629733011	DUP-1	EPA 300.0 Rev 2.1 1993	529972		
2629733012	DUP-2	EPA 300.0 Rev 2.1 1993	529972		
2629733013	EB-2	EPA 300.0 Rev 2.1 1993	529972		
2629733014	BRGWC-29I	EPA 300.0 Rev 2.1 1993	529972		
2629733015	BRGWC-30I	EPA 300.0 Rev 2.1 1993	529972		
2629733016	BRGWC-32S	EPA 300.0 Rev 2.1 1993	529972		
2629733017	BRGWC-45	EPA 300.0 Rev 2.1 1993	529972		
2629733018	EB-3	EPA 300.0 Rev 2.1 1993	529972		
2629733019	FB-3	EPA 300.0 Rev 2.1 1993	529972		

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WUH - 2629733
 2629733

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed acc.



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Golder Contacts	Company Name:
Email To: SCS Contacts	Purchase Order No.:	Address:
Phone:	Project Name: Plant Branch AP-BCD 2nd Semi-Annual	Pace Quote Reference:
Requested Due Date/TAT: 10 Day	Project Number: 166625418	Pace Project Manager: Kevin Herring
		Pace Profile #: 2905-5
		REGULATORY AGENCY
		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR <input type="checkbox"/>
		Site Location
		STATE: GA

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW 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)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE	COMPOSITE					
1	BRGWC-30I	WT G	G	DATE	TIME	3-5-20	0910	H ₂ SO ₄	X	extra radiums
2	BRGWC-32S	WT G	G	DATE	TIME	3-5-20	1025	HNO ₃	X	
3	BRGWC-45	WT G	G	DATE	TIME	3-5-20	1605	Unpreserved	X	
4	FB-3	WT G	G	DATE	TIME	3-5-20	1530	HCl	X	
5	FB-3	WT G	G	DATE	TIME	3-5-20	1530 PM	NaOH	X	
6				DATE	TIME		1300	Na ₂ S ₂ O ₃	X	
7								Other		
8								Methanol		
9										
10										
11										
12										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please note dry wells, strike through any wells not sampled, and note when the last sample for the event has been taken.	DAREN COX / GOLDER	3-6-20	945	Charles Herring	3/6/20	0945	Received on Ice (Y/N) Y Custody Sealed (Y/N) Y Cooler (Y/N) Y Samples Intact (Y/N) Y
*Metals=As, B, Ba, Be, Ca, Cd, Co, Cr, Ni, Pb, Sb, Se, Li, Tl, Hg	SAMPLER NAME AND SIGNATURE						
	PRINT Name of SAMPLER: DAREN COX						
	SIGNATURE of SAMPLER: <i>[Signature]</i>						
	DATE Signed (MM/DD/YYYY): 3-6-2020						



Sample Condition Upon Receipt

Client Name: GA Power

WO#: 2629733

PM: KH Due Date: 03/18/20
CLIENT: 26-GA Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 230 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.2 C Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6 C

Date and Initials of person examining contents: 3/6/20

Table with 16 rows and 3 columns. Columns: Question, Yes/No/N/A checkboxes, and Numbered Item. Includes items like Chain of Custody Present, Samples Arrived within Hold Time, and Trip Blank Present.

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

December 17, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 2624487

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 2624487

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology 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 Branch

Pace Project No.: 2624487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624487001	BRGWC-29I	Water	10/16/19 09:50	10/17/19 11:35
2624487002	BRGWC-47	Water	10/16/19 11:35	10/17/19 11:35
2624487003	BRGWC-50	Water	10/16/19 13:25	10/17/19 11:35
2624487004	BRGWC-52I	Water	10/16/19 14:55	10/17/19 11:35
2624487005	Dup-2	Water	10/16/19 00:00	10/17/19 11:35

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SAMPLE ANALYTE COUNT

Project: Plant Branch

Pace Project No.: 2624487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624487001	BRGWC-29I	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487002	BRGWC-47	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487003	BRGWC-50	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487004	BRGWC-52I	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487005	Dup-2	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-291		Lab ID: 2624487001		Collected: 10/16/19 09:50		Received: 10/17/19 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:20	7440-36-0		
Arsenic	0.00065J	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:20	7440-38-2		
Barium	0.019	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:20	7440-39-3		
Beryllium	0.00072J	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:20	7440-41-7		
Boron	1.2	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:20	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:20	7440-43-9		
Calcium	54.0	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 20:26	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:20	7440-47-3		
Cobalt	0.0058	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:20	7440-48-4		
Lead	0.00027J	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:20	7439-92-1		
Lithium	0.0029J	mg/L	0.030	0.00078	1	10/21/19 16:03	10/23/19 20:20	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:20	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:20	7782-49-2		
Thallium	0.00017J	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:20	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2030	mg/L	10.0	10.0	1		10/23/19 15:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	6.9	mg/L	1.0	0.024	1		10/24/19 21:42	16887-00-6		
Fluoride	0.11J	mg/L	0.30	0.029	1		10/24/19 21:42	16984-48-8		
Sulfate	266	mg/L	20.0	0.34	20		10/25/19 05:18	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2624487

Sample: BRGWC-47		Lab ID: 2624487002		Collected: 10/16/19 11:35		Received: 10/17/19 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:43	7440-38-2	
Barium	0.032	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:43	7440-41-7	
Boron	0.36	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:43	7440-42-8	
Cadmium	0.00018J	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:43	7440-43-9	
Calcium	338	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 20:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:43	7440-47-3	
Cobalt	0.00032J	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:43	7439-92-1	
Lithium	0.038	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 09:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:43	7439-98-7	
Selenium	0.0017J	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:43	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2220	mg/L	10.0	10.0	1		10/23/19 15:47		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	4.6	mg/L	1.0	0.024	1		10/24/19 22:04	16887-00-6	
Fluoride	0.076J	mg/L	0.30	0.029	1		10/24/19 22:04	16984-48-8	
Sulfate	1560	mg/L	50.0	0.85	50		10/25/19 06:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-50		Lab ID: 2624487003		Collected: 10/16/19 13:25		Received: 10/17/19 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:55	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:55	7440-38-2		
Barium	0.017	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:55	7440-39-3		
Beryllium	0.0027J	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:55	7440-41-7		
Boron	0.31	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:55	7440-42-8		
Cadmium	0.014	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:55	7440-43-9		
Calcium	241	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:00	7440-70-2		
Chromium	0.00050J	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:55	7440-47-3		
Cobalt	1.4	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:55	7440-48-4		
Lead	0.000085J	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:55	7439-92-1		
Lithium	0.034	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 09:56	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:55	7439-98-7		
Selenium	0.0020J	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:55	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:55	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2280	mg/L	10.0	10.0	1		10/23/19 15:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	21.9	mg/L	1.0	0.024	1		10/24/19 22:47	16887-00-6		
Fluoride	0.39	mg/L	0.30	0.029	1		10/24/19 22:47	16984-48-8		
Sulfate	1590	mg/L	50.0	0.85	50		10/25/19 07:07	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-52I		Lab ID: 2624487004		Collected: 10/16/19 14:55		Received: 10/17/19 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 21:06	7440-36-0		
Arsenic	0.0026J	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 21:06	7440-38-2		
Barium	0.015	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 21:06	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 21:06	7440-41-7		
Boron	1.3	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 21:06	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 21:06	7440-43-9		
Calcium	48.4	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:12	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 21:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 21:06	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 21:06	7439-92-1		
Lithium	0.0023J	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 10:01	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 21:06	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 21:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 21:06	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	346	mg/L	10.0	10.0	1		10/23/19 15:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	7.0	mg/L	1.0	0.024	1		10/24/19 23:09	16887-00-6		
Fluoride	0.22J	mg/L	0.30	0.029	1		10/24/19 23:09	16984-48-8		
Sulfate	155	mg/L	10.0	0.17	10		10/25/19 07:29	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: Dup-2		Lab ID: 2624487005		Collected: 10/16/19 00:00		Received: 10/17/19 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 21:17	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 21:17	7440-38-2		
Barium	0.018	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 21:17	7440-39-3		
Beryllium	0.00061J	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 21:17	7440-41-7		
Boron	1.1	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 21:17	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 21:17	7440-43-9		
Calcium	53.5	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:23	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 21:17	7440-47-3		
Cobalt	0.0056	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 21:17	7440-48-4		
Lead	0.00027J	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 21:17	7439-92-1		
Lithium	0.0027J	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 10:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 21:17	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 21:17	7782-49-2		
Thallium	0.00016J	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 21:17	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	393	mg/L	10.0	10.0	1		10/23/19 15:48			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	6.9	mg/L	1.0	0.024	1		10/24/19 23:31	16887-00-6		
Fluoride	0.12J	mg/L	0.30	0.029	1		10/24/19 23:31	16984-48-8		
Sulfate	275	mg/L	20.0	0.34	20		10/25/19 07:51	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37286 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

METHOD BLANK: 168679 Matrix: Water
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	10/23/19 18:31	
Arsenic	mg/L	ND	0.0050	0.00035	10/23/19 18:31	
Barium	mg/L	ND	0.010	0.00049	10/23/19 18:31	
Beryllium	mg/L	ND	0.0030	0.000074	10/23/19 18:31	
Boron	mg/L	ND	0.040	0.0049	10/23/19 18:31	
Cadmium	mg/L	ND	0.0025	0.00011	10/23/19 18:31	
Calcium	mg/L	ND	0.10	0.011	10/23/19 18:31	
Chromium	mg/L	ND	0.010	0.00039	10/23/19 18:31	
Cobalt	mg/L	ND	0.0050	0.00030	10/23/19 18:31	
Lead	mg/L	ND	0.0050	0.000046	10/23/19 18:31	
Lithium	mg/L	ND	0.030	0.00078	10/23/19 18:31	
Molybdenum	mg/L	ND	0.010	0.00095	10/23/19 18:31	
Selenium	mg/L	ND	0.010	0.0013	10/23/19 18:31	
Thallium	mg/L	ND	0.0010	0.000052	10/23/19 18:31	

LABORATORY CONTROL SAMPLE: 168680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Calcium	mg/L	1	1.0	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 168681 168682

Parameter	Units	2624484003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2624487

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 168681		168682		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2624484003 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic	mg/L	0.00040J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Barium	mg/L	0.037	0.1	0.1	0.15	0.14	109	107	75-125	1	20		
Beryllium	mg/L	0.00015J	0.1	0.1	0.095	0.094	95	94	75-125	0	20		
Boron	mg/L	2.2	1	1	3.1	3.1	90	90	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20		
Calcium	mg/L	61.2	1	1	62.7	66.1	145	485	75-125	5	20	M6	
Chromium	mg/L	0.0064J	0.1	0.1	0.11	0.10	100	98	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Lithium	mg/L	0.0022J	0.1	0.1	0.096	0.095	94	93	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	95	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37419 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

LABORATORY CONTROL SAMPLE: 169291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	84-108	

SAMPLE DUPLICATE: 169292

Parameter	Units	2624484007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 169293

Parameter	Units	2624491004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	500	501	0	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37461 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

METHOD BLANK: 169631 Matrix: Water
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.043J	1.0	0.024	10/24/19 16:21	
Fluoride	mg/L	ND	0.30	0.029	10/24/19 16:21	
Sulfate	mg/L	ND	1.0	0.017	10/24/19 16:21	

LABORATORY CONTROL SAMPLE: 169632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.6	106	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 169633 169634

Parameter	Units	2624484001 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	10	10	15.3	15.3	99	100	90-110	0	15	
Fluoride	mg/L	0.17J	10	10	11.1	11.1	110	110	90-110	0	15	

MATRIX SPIKE SAMPLE: 169635

Parameter	Units	2624487002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.6	10	14.7	101	90-110	
Fluoride	mg/L	0.076J	10	10.6	106	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch

Pace Project No.: 2624487

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch

Pace Project No.: 2624487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624487001	BRGWC-29I	EPA 3005A	37286	EPA 6020B	37308
2624487002	BRGWC-47	EPA 3005A	37286	EPA 6020B	37308
2624487003	BRGWC-50	EPA 3005A	37286	EPA 6020B	37308
2624487004	BRGWC-52I	EPA 3005A	37286	EPA 6020B	37308
2624487005	Dup-2	EPA 3005A	37286	EPA 6020B	37308
2624487001	BRGWC-29I	SM 2540C	37419		
2624487002	BRGWC-47	SM 2540C	37419		
2624487003	BRGWC-50	SM 2540C	37419		
2624487004	BRGWC-52I	SM 2540C	37419		
2624487005	Dup-2	SM 2540C	37419		
2624487001	BRGWC-29I	EPA 300.0	37461		
2624487002	BRGWC-47	EPA 300.0	37461		
2624487003	BRGWC-50	EPA 300.0	37461		
2624487004	BRGWC-52I	EPA 300.0	37461		
2624487005	Dup-2	EPA 300.0	37461		

REPORT OF LABORATORY ANALYSIS

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WO# : 2624487
2624487

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Report To: Joju Abraham

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
 Billing Information:
 Email: jabraham@southernco.com
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Report To: Joju Abraham

Site Collection Info/Address: Plant Branch
 State: Georgia City: Milledgeville Time Zone: Collected:
 Project Name: Plant Branch BCD Project #
 CCR
 Purchase Order #:
 Quote #:
 Turnaround Date Required:
 Rush:
 () Same Day () Next Day
 () 2 Day () 3 Day () 4 Day () 5 Day
 (Expedite Charges Apply)

Project Manager:
 Pace Project Manager:
 betsy.mcdaniels@pacelabs.com
 Immediately Packed On Ice:
 (X) Yes () No
 Field Filtered (if applicable):
 () Yes () No
 Analysts:

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
 Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Collected (or Composite Start)		Composite End	Res CI	# of Ctns
		Date	Time			
BRGWC-291	GW	10/16/2019	9:50			4
BRGWC-47	GW	10/16/2019	11:35			6
BRGWC-50	GW	10/16/2019	13:25			4
BRGWC-521	GW	10/16/2019	14:55			4
DUP-2	GW	10/16/2019	--			4

(App III Metals): B, Ca, (App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Rodchem sample(s) screened (<500 ppm): Y N NA
 Received by/Company: (Signature)
 Received by/Company: (Signature)
 Received by/Company: (Signature)

Relinquished by/Company: (Signature)
 Date/Time: 10-17-19 10:15
 Relinquished by/Company: (Signature)
 Date/Time: 10-17-19 10:15
 Relinquished by/Company: (Signature)
 Date/Time:
 Received by/Company: (Signature)

Workorder Number or
E ONLY
 Lab Project Manager:

Analyses
 Metals App III/IV - see comments
 Radium 226, 228
 Chloride, Fluoride, Sulfate, TDS

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Correct Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace Acceptable: Y N NA
 USDA Registered Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 CI Strips: Y N NA
 Sample pH Acceptable: Y N NA
 pH Strips: Y N NA
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA
 Lab USE ONLY:
 Lab Sample # / Comments: Rad-1

LAB Sample Temperature Info:
 Therm ID#:
 Temp Blank Received: Y N NA
 Cooler 1 Temp Upon Receipt:
 Cooler 1 Therm Corr. Factor:
 Cooler 1 Corrected Temp:
 Comments:
 Trip Blank Received: Y N NA
 HCL MeOH: TSP Other
 Non-Conformance(s): Page: 1 of 1
 YES / NO

Sample Condition Upon Receipt



Client Name: GRAPOWER Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/17/19

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

3000 W28

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

September 27, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch BCD
Pace Project No.: 2622596

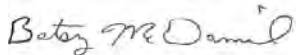
Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report replaces the report issued on September 10, 2019. This report was revised to correct the DUP sample ID per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta
Dominic Weatherhill, Georgia Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch BCD

Pace Project No.: 2622596

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch BCD

Pace Project No.: 2622596

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622596001	BRGWA-23S	Water	08/29/19 15:05	08/30/19 08:00
2622596002	BRGWC-50	Water	08/29/19 10:55	08/30/19 08:00
2622596003	BRGWC-52I	Water	08/29/19 12:40	08/30/19 08:00
2622596004	Dup-2	Water	08/29/19 00:00	08/30/19 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Branch BCD

Pace Project No.: 2622596

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622596001	BRGWA-23S	EPA 6020B	KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596002	BRGWC-50	EPA 6020B	CSW, KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596003	BRGWC-52I	EPA 6020B	KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596004	Dup-2	EPA 6020B	CSW, KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch BCD

Pace Project No.: 2622596

Sample: BRGWA-23S		Lab ID: 2622596001		Collected: 08/29/19 15:05		Received: 08/30/19 08:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 14:58	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 14:58	7440-38-2		
Barium	0.076	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 14:58	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 14:58	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 14:58	7440-43-9		
Chromium	0.0016J	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 14:58	7440-47-3		
Cobalt	0.0015J	mg/L	0.010	0.00030	1	09/04/19 14:00	09/06/19 14:58	7440-48-4		
Lead	0.000070J	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 14:58	7439-92-1		
Lithium	0.0070J	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 14:58	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 14:58	7439-98-7		
Selenium	0.0023J	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 14:58	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 14:58	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:35	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.084J	mg/L	0.10	0.050	1		09/07/19 13:52	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Branch BCD

Pace Project No.: 2622596

Sample: BRGWC-50		Lab ID: 2622596002		Collected: 08/29/19 10:55		Received: 08/30/19 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.00052J	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:21	7440-38-2	
Barium	0.018	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:21	7440-39-3	
Beryllium	0.0029J	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:21	7440-41-7	
Cadmium	0.0071	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 15:21	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:21	7440-47-3	
Cobalt	1.3	mg/L	0.050	0.0015	5	09/04/19 14:00	09/09/19 13:11	7440-48-4	
Lead	0.000049J	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:21	7439-92-1	
Lithium	0.039J	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 15:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:21	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:37	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	0.41	mg/L	0.10	0.050	1		09/07/19 14:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Branch BCD

Pace Project No.: 2622596

Sample: BRGWC-52I		Lab ID: 2622596003		Collected: 08/29/19 12:40		Received: 08/30/19 08:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:27	7440-36-0		
Arsenic	0.00067J	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:27	7440-38-2		
Barium	0.017	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:27	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:27	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 15:27	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:27	7440-47-3		
Cobalt	0.00063J	mg/L	0.010	0.00030	1	09/04/19 14:00	09/06/19 15:27	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:27	7439-92-1		
Lithium	0.0052J	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 15:27	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:27	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:27	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:27	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:39	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.087J	mg/L	0.10	0.050	1		09/07/19 14:23	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Branch BCD
Pace Project No.: 2622596

Sample: Dup-2		Lab ID: 2622596004		Collected: 08/29/19 00:00		Received: 08/30/19 08:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:33	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:33	7440-38-2		
Barium	0.017	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:33	7440-39-3		
Beryllium	0.0030J	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:33	7440-41-7		
Cadmium	0.0073	mg/L	0.0025	0.00011	1	09/04/19 14:00	09/06/19 15:33	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:33	7440-47-3		
Cobalt	1.3	mg/L	0.012	0.0015	5	09/04/19 14:00	09/09/19 13:17	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:33	7439-92-1		
Lithium	0.038	mg/L	0.010	0.00078	1	09/04/19 14:00	09/06/19 15:33	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:33	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:33	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:33	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:42	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.37	mg/L	0.10	0.050	1		09/07/19 14:38	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch BCD

Pace Project No.: 2622596

QC Batch: 34720

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 156270

Matrix: Water

Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	09/05/19 12:57	

LABORATORY CONTROL SAMPLE: 156271

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: 156272 156273

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2622587001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	91	92	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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QUALITY CONTROL DATA

Project: Plant Branch BCD
Pace Project No.: 2622596

QC Batch: 34718 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 156264 Matrix: Water
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/06/19 14:47	
Arsenic	mg/L	ND	0.0050	0.00035	09/06/19 14:47	
Barium	mg/L	ND	0.010	0.00049	09/06/19 14:47	
Beryllium	mg/L	ND	0.0030	0.000074	09/06/19 14:47	
Cadmium	mg/L	ND	0.0010	0.00011	09/06/19 14:47	
Chromium	mg/L	ND	0.010	0.00039	09/06/19 14:47	
Cobalt	mg/L	ND	0.010	0.00030	09/06/19 14:47	
Lead	mg/L	ND	0.0050	0.000046	09/06/19 14:47	
Lithium	mg/L	ND	0.050	0.00078	09/06/19 14:47	
Molybdenum	mg/L	ND	0.010	0.00095	09/06/19 14:47	
Selenium	mg/L	ND	0.010	0.0013	09/06/19 14:47	
Thallium	mg/L	ND	0.0010	0.000052	09/06/19 14:47	

LABORATORY CONTROL SAMPLE: 156265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	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	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156266 156267

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2622596001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Barium	mg/L	0.076	0.1	0.1	0.18	0.17	102	98	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	98	75-125	3	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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QUALITY CONTROL DATA

Project: Plant Branch BCD

Pace Project No.: 2622596

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156266		156267		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2622596001 Result	MS Spike Conc.	MSD Spike Conc.									
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	100	75-125	1	20		
Lead	mg/L	0.000070J	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Lithium	mg/L	0.0070J	0.1	0.1	0.11	0.10	98	97	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Selenium	mg/L	0.0023J	0.1	0.1	0.098	0.099	96	97	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Branch BCD

Pace Project No.: 2622596

QC Batch: 496582 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 2674477 Matrix: Water
 Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	09/07/19 12:19	

LABORATORY CONTROL SAMPLE: 2674478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674479 2674480

Parameter	Units	2622657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674481 2674482

Parameter	Units	2622587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	108	108	90-110	0	10	

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QUALIFIERS

Project: Plant Branch BCD

Pace Project No.: 2622596

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch BCD

Pace Project No.: 2622596

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622596001	BRGWA-23S	EPA 3005A	34718	EPA 6020B	34727
2622596002	BRGWC-50	EPA 3005A	34718	EPA 6020B	34727
2622596003	BRGWC-52I	EPA 3005A	34718	EPA 6020B	34727
2622596004	Dup-2	EPA 3005A	34718	EPA 6020B	34727
2622596001	BRGWA-23S	EPA 7470A	34720	EPA 7470A	34792
2622596002	BRGWC-50	EPA 7470A	34720	EPA 7470A	34792
2622596003	BRGWC-52I	EPA 7470A	34720	EPA 7470A	34792
2622596004	Dup-2	EPA 7470A	34720	EPA 7470A	34792
2622596001	BRGWA-23S	EPA 300.0 Rev 2.1 1993	496582		
2622596002	BRGWC-50	EPA 300.0 Rev 2.1 1993	496582		
2622596003	BRGWC-52I	EPA 300.0 Rev 2.1 1993	496582		
2622596004	Dup-2	EPA 300.0 Rev 2.1 1993	496582		

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WO#: 2622596

PM: BM
 CLIENT: GAPower-CCR

Due Date: 09/09/19



CHAIN-OF-CUSTODY Analytical Request Document



Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: Georgia Power - Coal Combustion Residuals

Address: 2480 Maner Road

Atlanta_GA_30339

Report To: Joju Abraham

Email To: scsinvoices@southernco.com

Copy To: Golder

Site Collection Info/Address: Plant Branch

Phone: (404) 505-7239

Email: jabraham@southernco.com

Phone: (404) 506-7289

Email: jabraham@southernco.com

State: Georgia City: Milledgeville Time Zone Collected:

Pace Profile# 326.112

Project Name: Plant Branch BCD

Project # CCR

Purchase Order #: SCS1038275

Quote #:

Turnaround Date Required:

Collected By (print): *Devon Thomas*

Collected By (signature): *Devon Thomas*

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): Yes No

Analysis:

Pace Project Manager:

betsy.mcdaniel@pacelabs.com

Immediately Packed on Ice: Yes No

Field Filtered (if applicable): Yes No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
BRGWA-235	GW	G	8/29/2019	1505			4	
BRGWC-50	GW	G	8/29/2019	1055			4	
BRGWC-521	GW	G	8/29/2019	1240			4	
Dup-3	GW	G	8/29/2019				4	

Customer Remarks / Special Conditions / Possible Hazards:
 Metals: Hg, Sb, As, Ba, Be, Cd, Cr, Co, Pb, U, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None

Packing Material Used: N/A

Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) *Joju Abraham*

Relinquished by/Company: (Signature) *Devon Thomas*

Relinquished by/Company: (Signature)

Date/Time: 8/29/19 10800

Date/Time: 8/29/19 0700

Date/Time:

Received by/Company: (Signature) *Devon Thomas*

Received by/Company: (Signature)

Received by/Company: (Signature)

Date/Time: 8/29/19 0700

Date/Time:

Date/Time:

Table #:

Accrual:

Template:

Prelogin:

PM:

PB:

Table #:

Accrual:

Template:

Prelogin:

PM:

PB:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Analyses	Fluoride by 300.0	Metals app IV	Radium 226,228
Lab Profile/Line:			
Lab Sample Receipt Checklist:			
Custody Seals Present/Intact			
Custody Signatures Present			
Collector Signature Present			
Bottles Intact			
Correct Bottles			
Sufficient Volume			
Samples Received on Ice			
VOL - Headspace Acceptable			
USDA Regulated Spills			
Samples in Holding Time			
Residual Chlorine Present			
CI Strips:			
Sample pH Acceptable			
pH Strips:			
Sulfide Present			
Lead Acetate Strips:			
LAB USE ONLY:			
Lab Sample # / Comments:			

LAB Sample Temperature Info:
 Temp Blank Received: NA
 Thera ID#: NA
 Cooler 1 Temp Upon Receipt: 10
 Cooler 1 Thera Corr Factor: 0C
 Cooler 1 Corrected Temp: 0C
 Comments:

Non Conformances: Page: ___ of ___
 YES / NO

March 31, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

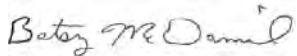
RE: Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology 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 Branch Pond BCD

Pace Project No.: 2616405

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616405001	BRGWC-25I	Water	03/20/19 16:50	03/21/19 10:35
2616405002	BRGWC-29I	Water	03/20/19 15:25	03/21/19 10:35
2616405003	BRGWC-30I	Water	03/20/19 13:05	03/21/19 10:35
2616405004	BRGWC-32S	Water	03/20/19 14:05	03/21/19 10:35
2616405005	BRGWC-45	Water	03/20/19 12:40	03/21/19 10:35
2616405006	BRGWC-50	Water	03/20/19 13:35	03/21/19 10:35
2616405007	BRGWC-52I	Water	03/20/19 10:20	03/21/19 10:35
2616405008	Dup-2	Water	03/20/19 00:00	03/21/19 10:35
2616405009	Dup-3	Water	03/20/19 00:00	03/21/19 10:35
2616405010	FB-3	Water	03/20/19 17:15	03/21/19 10:35
2616405011	EB-2	Water	03/20/19 13:30	03/21/19 10:35
2616405012	EB-3	Water	03/20/19 13:00	03/21/19 10:35

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2616405001	BRGWC-25I	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405002	BRGWC-29I	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405003	BRGWC-30I	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405004	BRGWC-32S	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405005	BRGWC-45	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405006	BRGWC-50	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405007	BRGWC-52I	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405008	Dup-2	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405009	Dup-3	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405010	FB-3	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405011	EB-2	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405012	EB-3	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-25I		Lab ID: 2616405001		Collected: 03/20/19 16:50	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	1.5	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 18:14	7440-42-8		
Calcium	54.2	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 18:19	7440-70-2	M6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	412	mg/L	25.0	10.0	1		03/22/19 13:11			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	6.4	mg/L	0.25	0.024	1		03/26/19 06:28	16887-00-6		
Fluoride	0.18J	mg/L	0.30	0.029	1		03/26/19 06:28	16984-48-8		
Sulfate	240	mg/L	10.0	0.17	10		03/27/19 21:06	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-29I		Lab ID: 2616405002		Collected: 03/20/19 15:25	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	1.5	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:05	7440-42-8		
Calcium	55.4	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:11	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	391	mg/L	25.0	10.0	1		03/22/19 13:11			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.6	mg/L	0.25	0.024	1		03/26/19 07:14	16887-00-6		
Fluoride	0.091J	mg/L	0.30	0.029	1		03/26/19 07:14	16984-48-8		
Sulfate	278	mg/L	20.0	0.34	20		03/27/19 21:28	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-30I		Lab ID: 2616405003		Collected: 03/20/19 13:05	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	1.7	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:17	7440-42-8		
Calcium	141	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:22	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	885	mg/L	25.0	10.0	1		03/22/19 13:11			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.8	mg/L	0.25	0.024	1		03/26/19 07:37	16887-00-6		
Fluoride	0.31	mg/L	0.30	0.029	1		03/26/19 07:37	16984-48-8		
Sulfate	623	mg/L	20.0	0.34	20		03/27/19 21:51	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-32S		Lab ID: 2616405004		Collected: 03/20/19 14:05	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	1.4	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:28	7440-42-8		
Calcium	52.8	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:34	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	564	mg/L	25.0	10.0	1		03/22/19 13:10			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	7.3	mg/L	0.25	0.024	1		03/26/19 08:00	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 08:00	16984-48-8		
Sulfate	409	mg/L	20.0	0.34	20		03/27/19 22:14	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-45		Lab ID: 2616405005		Collected: 03/20/19 12:40	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	0.043	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:40	7440-42-8		
Calcium	31.2	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:45	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	302	mg/L	25.0	10.0	1		03/22/19 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	27.7	mg/L	0.25	0.024	1		03/26/19 08:23	16887-00-6		
Fluoride	0.066J	mg/L	0.30	0.029	1		03/26/19 08:23	16984-48-8		
Sulfate	127	mg/L	10.0	0.17	10		03/27/19 22:37	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-50		Lab ID: 2616405006		Collected: 03/20/19 13:35	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	0.34	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:51	7440-42-8		
Calcium	222	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:57	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2280	mg/L	25.0	10.0	1		03/22/19 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	23.5	mg/L	0.25	0.024	1		03/26/19 08:46	16887-00-6		
Fluoride	0.21J	mg/L	0.30	0.029	1		03/26/19 08:46	16984-48-8		
Sulfate	1740	mg/L	50.0	0.85	50		03/27/19 23:00	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: BRGWC-52I		Lab ID: 2616405007		Collected: 03/20/19 10:20	Received: 03/21/19 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Boron	1.6	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:14	7440-42-8	
Calcium	40.3	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:20	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	366	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	6.7	mg/L	0.25	0.024	1		03/26/19 09:08	16887-00-6	
Fluoride	0.14J	mg/L	0.30	0.029	1		03/26/19 09:08	16984-48-8	
Sulfate	180	mg/L	10.0	0.17	10		03/27/19 23:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: Dup-2		Lab ID: 2616405008		Collected: 03/20/19 00:00		Received: 03/21/19 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Boron	1.6	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:25	7440-42-8	
Calcium	41.4	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:31	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	354	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	6.7	mg/L	0.25	0.024	1		03/26/19 09:31	16887-00-6	
Fluoride	0.13J	mg/L	0.30	0.029	1		03/26/19 09:31	16984-48-8	
Sulfate	193	mg/L	10.0	0.17	10		03/27/19 23:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: Dup-3		Lab ID: 2616405009		Collected: 03/20/19 00:00	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	1.5	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:37	7440-42-8		
Calcium	53.7	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:43	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	409	mg/L	25.0	10.0	1		03/22/19 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	6.2	mg/L	0.25	0.024	1		03/26/19 11:26	16887-00-6		
Fluoride	0.16J	mg/L	0.30	0.029	1		03/26/19 11:26	16984-48-8		
Sulfate	230	mg/L	10.0	0.17	10		03/28/19 01:17	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: FB-3		Lab ID: 2616405010		Collected: 03/20/19 17:15	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:48	7440-42-8		
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 20:48	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	13.0J	mg/L	25.0	10.0	1		03/22/19 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.31	mg/L	0.25	0.024	1		03/26/19 11:49	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 11:49	16984-48-8		
Sulfate	0.11J	mg/L	1.0	0.017	1		03/26/19 11:49	14808-79-8	B	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: EB-2		Lab ID: 2616405011		Collected: 03/20/19 13:30	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:54	7440-42-8		
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 20:54	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	35.0	mg/L	25.0	10.0	1		03/26/19 22:18			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.31	mg/L	0.25	0.024	1		03/26/19 12:11	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 12:11	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		03/26/19 12:11	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

Sample: EB-3		Lab ID: 2616405012		Collected: 03/20/19 13:00	Received: 03/21/19 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 21:00	7440-42-8		
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 21:00	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	13.0J	mg/L	25.0	10.0	1		03/26/19 22:18			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.094J	mg/L	0.25	0.024	1		03/27/19 21:08	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		03/27/19 21:08	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		03/27/19 21:08	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25068 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008,
2616405009, 2616405010, 2616405011, 2616405012

METHOD BLANK: 113023 Matrix: Water
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008,
2616405009, 2616405010, 2616405011, 2616405012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0039	03/26/19 18:02	
Calcium	mg/L	ND	0.50	0.014	03/26/19 18:02	

LABORATORY CONTROL SAMPLE: 113024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113025 113026

Parameter	Units	2616405001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.5	1	1	2.5	2.5	93	98	75-125	2	20	
Calcium	mg/L	54.2	1	1	54.8	53.9	60	-25	75-125	2	20	M6

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

QC Batch: 24911

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010

LABORATORY CONTROL SAMPLE: 112288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	84-108	

SAMPLE DUPLICATE: 112289

Parameter	Units	2616371001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	68.0	76.0	11	10	D6

SAMPLE DUPLICATE: 112290

Parameter	Units	2616405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	412	386	7	10	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2616405

QC Batch:	25049	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	2616405011, 2616405012		

LABORATORY CONTROL SAMPLE: 112956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	84-108	

SAMPLE DUPLICATE: 112957

Parameter	Units	2616510001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	35.0	36.0	3	10	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25012 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011

METHOD BLANK: 112819 Matrix: Water
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.31	0.25	0.024	03/26/19 00:00	
Fluoride	mg/L	ND	0.30	0.029	03/26/19 00:00	
Sulfate	mg/L	0.10J	1.0	0.017	03/26/19 00:00	

LABORATORY CONTROL SAMPLE: 112820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112821 112822

Parameter	Units	2616371001		2616371002		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Chloride	mg/L	2.0	10	10	12.2	12.2	102	102	90-110	0	15	
Fluoride	mg/L	0.037J	10	10	10.4	10.4	103	104	90-110	0	15	
Sulfate	mg/L	0.78J	10	10	11.8	11.8	110	110	90-110	0	15	

MATRIX SPIKE SAMPLE: 112823

Parameter	Units	2616371002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	10	12.2	97	90-110	
Fluoride	mg/L	0.066J	10	10.0	100	90-110	
Sulfate	mg/L	6.0	10	16.2	101	90-110	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25289 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2616405012

METHOD BLANK: 113957 Matrix: Water
Associated Lab Samples: 2616405012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.062J	0.25	0.024	03/27/19 20:23	
Fluoride	mg/L	ND	0.30	0.029	03/27/19 20:23	
Sulfate	mg/L	ND	1.0	0.017	03/27/19 20:23	

LABORATORY CONTROL SAMPLE: 113958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113959 113960

Parameter	Units	2616405012 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Chloride	mg/L	0.094J	10	10	9.8	9.8	98	97	90-110	0	15		
Fluoride	mg/L	ND	10	10	9.4	9.5	94	95	90-110	1	15		
Sulfate	mg/L	ND	10	10	8.9	8.9	89	89	90-110	0	15	M1	

MATRIX SPIKE SAMPLE: 113961

Parameter	Units	2616407006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.36	10	9.8	94	90-110	
Fluoride	mg/L	ND	10	9.9	99	90-110	
Sulfate	mg/L	0.91J	10	8.6	77	90-110	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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. |
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616405001	BRGWC-25I	EPA 3005A	25068	EPA 6020B	25105
2616405002	BRGWC-29I	EPA 3005A	25068	EPA 6020B	25105
2616405003	BRGWC-30I	EPA 3005A	25068	EPA 6020B	25105
2616405004	BRGWC-32S	EPA 3005A	25068	EPA 6020B	25105
2616405005	BRGWC-45	EPA 3005A	25068	EPA 6020B	25105
2616405006	BRGWC-50	EPA 3005A	25068	EPA 6020B	25105
2616405007	BRGWC-52I	EPA 3005A	25068	EPA 6020B	25105
2616405008	Dup-2	EPA 3005A	25068	EPA 6020B	25105
2616405009	Dup-3	EPA 3005A	25068	EPA 6020B	25105
2616405010	FB-3	EPA 3005A	25068	EPA 6020B	25105
2616405011	EB-2	EPA 3005A	25068	EPA 6020B	25105
2616405012	EB-3	EPA 3005A	25068	EPA 6020B	25105
2616405001	BRGWC-25I	SM 2540C	24911		
2616405002	BRGWC-29I	SM 2540C	24911		
2616405003	BRGWC-30I	SM 2540C	24911		
2616405004	BRGWC-32S	SM 2540C	24911		
2616405005	BRGWC-45	SM 2540C	24911		
2616405006	BRGWC-50	SM 2540C	24911		
2616405007	BRGWC-52I	SM 2540C	24911		
2616405008	Dup-2	SM 2540C	24911		
2616405009	Dup-3	SM 2540C	24911		
2616405010	FB-3	SM 2540C	24911		
2616405011	EB-2	SM 2540C	25049		
2616405012	EB-3	SM 2540C	25049		
2616405001	BRGWC-25I	EPA 300.0	25012		
2616405002	BRGWC-29I	EPA 300.0	25012		
2616405003	BRGWC-30I	EPA 300.0	25012		
2616405004	BRGWC-32S	EPA 300.0	25012		
2616405005	BRGWC-45	EPA 300.0	25012		
2616405006	BRGWC-50	EPA 300.0	25012		
2616405007	BRGWC-52I	EPA 300.0	25012		
2616405008	Dup-2	EPA 300.0	25012		
2616405009	Dup-3	EPA 300.0	25012		
2616405010	FB-3	EPA 300.0	25012		
2616405011	EB-2	EPA 300.0	25012		
2616405012	EB-3	EPA 300.0	25289		

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(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

CLIENT NAME:
Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO:
Dawn Pirell (Dawn_Pirell@golder.com)
rachel.kirkman@golder.com

REQUESTED COMPLETION DATE:
Standard TAT
laburch@southernco.com

PROJECT NAME/STATE:
Plant Branch
Pond BCD

PROJECT #:

CONTAINER TYPE	PRESERVATION	P	P	ANALYSIS REQUESTED	L	A	B	I	D	N	U	M	B	E	R
# of CONTAINERS		3&7	7												
				Metals App. III (Boron & Calcium) (EPA 5020)											
				Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)											
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												
2		X	X												

Collection DATE	Collection TIME	MATRIX CODE*	C	G	R	O	M	A	P	SAMPLE IDENTIFICATION	DATE/TIME	DATE/TIME
03/20/19	1650	GW	X							BRGWC-25I	3-20-19	17:30
03/20/19	1525	GW	X							BRGWC-29I		
03/20/19	1305	GW	X							BRGWC-30I		
03/20/19	1405	GW	X							BRGWC-32S		
03/20/19	1240	GW	X							BRGWC-45		
03/20/19	1335	GW	X							BRGWC-50		
03/20/19	1020	GW	X							BRGWC-52I		
03/20/19	-	GW	X							DUP-2		
03/20/19	-	GW	X							DUP-3		
03/20/19	1715	W	X							FB-3		
03/20/19	1330	W	X							EB-2		
03/20/19	1300	W	X							EB-3		
SAMPLED BY AND TITLE:		A. T. O'Connell, M. Wickma			DATE/TIME:	3-20-19	17:30	DATE/TIME:				
RECEIVED BY:		[Signature]			DATE/TIME:	3-21-19	10:35	DATE/TIME:				
RECEIVED BY LAB:		[Signature]			DATE/TIME:	3-21-19	10:35	DATE/TIME:				
PH Checked:	No	NA	Yes	No	NA	Max	Tempature:	Min	5	32		
RECEIVED BY CUSTOMER:		[Signature]			DATE/TIME:			DATE/TIME:				

CLIENT INFORMATION:
DATE/TIME: 3-21-19 10:35
DATE/TIME:

ANALYSIS REQUESTED:
RECEIVED BY: REINQUISHED BY: RELINQUISHED BY:

CONTAINER INFORMATION:
DATE/TIME: 3-21-19 10:35
DATE/TIME:

LABORATORY INFORMATION:
LAB #: 2616405
FOR LAB USE ONLY

SHIPPING INFORMATION:
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS
of Coolers: 3 (Not Present)

TRACKING INFORMATION:
Entered into LIMS: Tracking #:

NOT: 2616405

2616405



Sample Condition Upon Receipt

Client Name: GLA Power

Project # _____

WO# : 2616405

PM: BM

Due Date: 03/28/19

CLIENT: GA Power-CCR

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 3/21/19 MB

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 8.3 Type of Ice: wet Blue None

Cooler Temperature 5.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

January 24, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

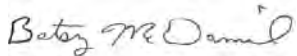
RE: Project: Plant Branch
Pace Project No.: 2613846

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch

Pace Project No.: 2613846

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology 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 Branch
Pace Project No.: 2613846

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2613846001	BRGWC-50	Water	01/16/19 16:10	01/17/19 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Branch

Pace Project No.: 2613846

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2613846001	BRGWC-50	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2613846

Sample: BRGWC-50		Lab ID: 2613846001		Collected: 01/16/19 16:10		Received: 01/17/19 10:20		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	01/21/19 12:25	01/22/19 16:39	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	01/21/19 12:25	01/22/19 16:39	7440-38-2		
Barium	0.020	mg/L	0.010	0.00078	1	01/21/19 12:25	01/22/19 16:39	7440-39-3		
Beryllium	0.0038	mg/L	0.0030	0.000050	1	01/21/19 12:25	01/22/19 16:39	7440-41-7		
Boron	0.37	mg/L	0.040	0.0039	1	01/21/19 12:25	01/22/19 16:39	7440-42-8		
Cadmium	0.028	mg/L	0.0010	0.000093	1	01/21/19 12:25	01/22/19 16:39	7440-43-9		
Calcium	248	mg/L	25.0	0.69	50	01/21/19 12:25	01/22/19 16:44	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	01/21/19 12:25	01/22/19 16:39	7440-47-3		
Cobalt	1.4	mg/L	0.50	0.026	50	01/21/19 12:25	01/22/19 16:44	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	01/21/19 12:25	01/22/19 16:39	7439-92-1		
Lithium	0.042J	mg/L	0.050	0.00097	1	01/21/19 12:25	01/22/19 16:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	01/21/19 12:25	01/22/19 16:39	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	01/21/19 12:25	01/22/19 16:39	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	01/21/19 12:25	01/22/19 16:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	01/18/19 12:10	01/23/19 14:40	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2270	mg/L	25.0	10.0	1		01/18/19 13:23			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	24.1	mg/L	0.25	0.024	1		01/21/19 20:53	16887-00-6	M1	
Fluoride	1.1	mg/L	0.30	0.029	1		01/21/19 20:53	16984-48-8		
Sulfate	589	mg/L	1.0	0.017	1		01/21/19 20:53	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20870 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2613846001

METHOD BLANK: 93839 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	01/23/19 14:26	

LABORATORY CONTROL SAMPLE: 93840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93841 93842

Parameter	Units	2613882001 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result							
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	95	99	75-125	3	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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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20955 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2613846001

METHOD BLANK: 94322 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/22/19 16:27	
Arsenic	mg/L	ND	0.0050	0.00057	01/22/19 16:27	
Barium	mg/L	ND	0.010	0.00078	01/22/19 16:27	
Beryllium	mg/L	ND	0.0030	0.000050	01/22/19 16:27	
Boron	mg/L	ND	0.040	0.0039	01/22/19 16:27	
Cadmium	mg/L	ND	0.0010	0.000093	01/22/19 16:27	
Calcium	mg/L	ND	0.50	0.014	01/22/19 16:27	
Chromium	mg/L	ND	0.010	0.0016	01/22/19 16:27	
Cobalt	mg/L	ND	0.010	0.00052	01/22/19 16:27	
Lead	mg/L	ND	0.0050	0.00027	01/22/19 16:27	
Lithium	mg/L	ND	0.050	0.00097	01/22/19 16:27	
Molybdenum	mg/L	ND	0.010	0.0019	01/22/19 16:27	
Selenium	mg/L	ND	0.010	0.0014	01/22/19 16:27	
Thallium	mg/L	ND	0.0010	0.00014	01/22/19 16:27	

LABORATORY CONTROL SAMPLE: 94323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Calcium	mg/L	1	0.98	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	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: 94324 94325

Parameter	Units	2613928011 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	101	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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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2613846

Parameter	Units	2613928011		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec								
Arsenic	mg/L	0.0023J	0.1	0.1	0.10	0.10	98	97	75-125	1	20					
Barium	mg/L	0.054	0.1	0.1	0.15	0.15	96	97	75-125	1	20					
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20					
Boron	mg/L	0.91	1	1	1.9	1.9	98	94	75-125	2	20					
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	1	20					
Calcium	mg/L	46.5	1	1	47.2	45.5	72	-104	75-125	4	20	M6				
Chromium	mg/L	0.0021J	0.1	0.1	0.11	0.11	103	104	75-125	1	20					
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20					
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20					
Lithium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20					
Molybdenum	mg/L	0.087	0.1	0.1	0.19	0.19	104	105	75-125	1	20					
Selenium	mg/L	0.0018J	0.1	0.1	0.10	0.10	101	103	75-125	2	20					
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2613846

QC Batch: 20852

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2613846001

LABORATORY CONTROL SAMPLE: 93755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 93756

Parameter	Units	2613841002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	122	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20943 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2613846001

METHOD BLANK: 94292 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.13J	0.25	0.024	01/21/19 20:11	
Fluoride	mg/L	ND	0.30	0.029	01/21/19 20:11	
Sulfate	mg/L	ND	1.0	0.017	01/21/19 20:11	

LABORATORY CONTROL SAMPLE: 94293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.5	95	90-110	
Fluoride	mg/L	10	9.0	90	90-110	
Sulfate	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94294 94295

Parameter	Units	2613846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.1	10	10	30.6	30.7	65	66	90-110	0	15	M1
Fluoride	mg/L	1.1	10	10	10.7	10.8	95	96	90-110	1	15	
Sulfate	mg/L	1510	10	10	558	558	-312	-312	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 94296

Parameter	Units	2613849001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	8.6	10	15.2	66	90-110	M1
Fluoride	mg/L	ND	10	9.3	93	90-110	
Sulfate	mg/L	209	10	160	-488	90-110	E,M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch
Pace Project No.: 2613846

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch

Pace Project No.: 2613846

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2613846001	BRGWC-50	EPA 3005A	20955	EPA 6020B	20975
2613846001	BRGWC-50	EPA 7470A	20870	EPA 7470A	20890
2613846001	BRGWC-50	SM 2540C	20852		
2613846001	BRGWC-50	EPA 300.0	20943		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt



Client Name: GA Power

Project # _____

WO#: 2613846

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

PM: BM Due Date: 01/24/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.3
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1/17/19 ML

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: _____ Date/Time: _____ Field Data Required? Y / N

Person Contacted: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

December 28, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

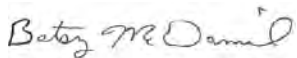
RE: Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2613019001	BRGWC-50	Water	12/19/18 10:45	12/20/18 15:40
2613019002	BRGWC-32S	Water	12/19/18 12:15	12/20/18 15:40
2613019003	BRGWC-47	Water	12/19/18 14:30	12/20/18 15:40
2613019004	Dup-3	Water	12/20/18 00:00	12/20/18 15:40
2613019005	BRGWC-27I	Water	12/20/18 10:08	12/20/18 15:40
2613019006	RB-2	Water	12/20/18 10:00	12/20/18 15:40
2613019007	FB-2	Water	12/20/18 10:05	12/20/18 15:40
2613019008	FB-3	Water	12/20/18 10:20	12/20/18 15:40
2613019009	BRGWC-45	Water	12/20/18 10:30	12/20/18 15:40
2613019010	BRGWC-52	Water	12/20/18 11:40	12/20/18 15:40

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2613019001	BRGWC-50	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019002	BRGWC-32S	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019003	BRGWC-47	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019004	Dup-3	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019005	BRGWC-27I	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019006	RB-2	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019007	FB-2	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019008	FB-3	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019009	BRGWC-45	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019010	BRGWC-52	EPA 6020B	CSW	14

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-50		Lab ID: 2613019001		Collected: 12/19/18 10:45		Received: 12/20/18 15:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 13:56	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 13:56	7440-38-2		
Barium	0.020	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 13:56	7440-39-3		
Beryllium	0.0043	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 13:56	7440-41-7		
Boron	0.35	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 13:56	7440-42-8		
Cadmium	0.042	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 13:56	7440-43-9		
Calcium	252	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:02	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 13:56	7440-47-3		
Cobalt	1.5	mg/L	0.50	0.026	50	12/24/18 11:40	12/26/18 14:02	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 13:56	7439-92-1		
Lithium	0.043J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 13:56	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 13:56	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 13:56	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 13:56	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 13:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2190	mg/L	25.0	10.0	1		12/21/18 13:55			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	23.3	mg/L	0.25	0.024	1		12/28/18 02:22	16887-00-6	M1	
Fluoride	0.54	mg/L	0.30	0.029	1		12/28/18 02:22	16984-48-8		
Sulfate	1650	mg/L	50.0	0.85	50		12/28/18 10:10	14808-79-8	M1	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-32S		Lab ID: 2613019002		Collected: 12/19/18 12:15		Received: 12/20/18 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:08	7440-38-2	
Barium	0.036	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:08	7440-41-7	
Boron	1.6	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:08	7440-42-8	
Cadmium	0.00012J	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:08	7440-43-9	B
Calcium	61.2	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:14	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:08	7439-92-1	
Lithium	0.0018J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:08	7439-98-7	
Selenium	0.0059J	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:08	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:04	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	605	mg/L	25.0	10.0	1		12/21/18 13:56		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.0	mg/L	0.25	0.024	1		12/28/18 03:27	16887-00-6	
Fluoride	0.23J	mg/L	0.30	0.029	1		12/28/18 03:27	16984-48-8	
Sulfate	370	mg/L	20.0	0.34	20		12/28/18 10:33	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-47		Lab ID: 2613019003		Collected: 12/19/18 14:30		Received: 12/20/18 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:19	7440-36-0	
Arsenic	0.00075J	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:19	7440-38-2	
Barium	0.040	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:19	7440-39-3	
Beryllium	0.000060J	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:19	7440-41-7	B
Boron	0.41	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:19	7440-43-9	
Calcium	330	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:25	7440-70-2	
Chromium	0.0018J	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:19	7440-47-3	
Cobalt	0.0014J	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:19	7439-92-1	
Lithium	0.043J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:19	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:07	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2060	mg/L	25.0	10.0	1		12/21/18 13:56		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	4.5	mg/L	0.25	0.024	1		12/28/18 03:49	16887-00-6	
Fluoride	0.28J	mg/L	0.30	0.029	1		12/28/18 03:49	16984-48-8	
Sulfate	1520	mg/L	50.0	0.85	50		12/28/18 10:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: Dup-3		Lab ID: 2613019004		Collected: 12/20/18 00:00		Received: 12/20/18 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:31	7440-38-2	
Barium	0.014	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:31	7440-39-3	
Beryllium	0.000099J	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:31	7440-41-7	B
Boron	1.4	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:31	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:31	7440-43-9	
Calcium	62.7	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:37	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:31	7440-47-3	
Cobalt	0.0078J	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:31	7439-92-1	
Lithium	0.0015J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:31	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:31	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:09	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	350	mg/L	25.0	10.0	1		12/21/18 13:59		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	5.6	mg/L	0.25	0.024	1		12/28/18 04:11	16887-00-6	
Fluoride	0.22J	mg/L	0.30	0.029	1		12/28/18 04:11	16984-48-8	
Sulfate	196	mg/L	20.0	0.34	20		12/28/18 11:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-271 **Lab ID: 2613019005** Collected: 12/20/18 10:08 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:04	7440-38-2	
Barium	0.015	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:04	7440-39-3	
Beryllium	0.00012J	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:04	7440-41-7	B
Boron	1.4	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:04	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:04	7440-43-9	
Calcium	63.9	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:10	7440-70-2	
Chromium	0.0030J	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:04	7440-47-3	
Cobalt	0.0081J	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:04	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:04	7439-92-1	
Lithium	0.0015J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:04	7440-28-0	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:11	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	344	mg/L	25.0	10.0	1		12/21/18 14:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	5.6	mg/L	0.25	0.024	1		12/28/18 04:33	16887-00-6	
Fluoride	0.26J	mg/L	0.30	0.029	1		12/28/18 04:33	16984-48-8	
Sulfate	200	mg/L	20.0	0.34	20		12/28/18 12:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: RB-2		Lab ID: 2613019006		Collected: 12/20/18 10:00		Received: 12/20/18 15:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:16	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:16	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:16	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:16	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:16	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:16	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:16	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:16	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:16	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:16	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:16	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:16	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:16	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:16	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:14	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	16.0J	mg/L	25.0	10.0	1		12/21/18 14:00			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.12J	mg/L	0.25	0.024	1		12/28/18 04:54	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 04:54	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 04:54	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: FB-2		Lab ID: 2613019007		Collected: 12/20/18 10:05	Received: 12/20/18 15:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:22	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:22	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:22	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:22	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:22	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:22	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:22	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:22	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:22	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:22	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:22	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:22	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:22	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:22	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:16	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	17.0J	mg/L	25.0	10.0	1		12/21/18 14:00			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.083J	mg/L	0.25	0.024	1		12/28/18 05:16	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 05:16	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 05:16	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: FB-3		Lab ID: 2613019008		Collected: 12/20/18 10:20	Received: 12/20/18 15:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:27	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:27	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:27	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:27	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:27	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:27	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:27	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:27	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:27	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:27	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:27	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:27	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:27	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:27	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:18	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	20.0J	mg/L	25.0	10.0	1		12/21/18 14:01			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.12J	mg/L	0.25	0.024	1		12/28/18 05:38	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 05:38	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 05:38	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-45		Lab ID: 2613019009		Collected: 12/20/18 10:30		Received: 12/20/18 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.0024J	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:33	7440-38-2	
Barium	0.093	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:33	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:33	7440-41-7	
Boron	0.028J	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:33	7440-42-8	
Cadmium	0.00029J	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:33	7440-43-9	B
Calcium	39.0	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:33	7440-47-3	
Cobalt	0.069	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:33	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:33	7439-92-1	
Lithium	0.0030J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:33	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:33	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:21	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	322	mg/L	25.0	10.0	1		12/21/18 14:01		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	47.2	mg/L	0.25	0.024	1		12/28/18 07:27	16887-00-6	
Fluoride	0.12J	mg/L	0.30	0.029	1		12/28/18 07:27	16984-48-8	
Sulfate	113	mg/L	10.0	0.17	10		12/28/18 12:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Sample: BRGWC-52		Lab ID: 2613019010		Collected: 12/20/18 11:40		Received: 12/20/18 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:45	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:45	7440-38-2	
Barium	0.013	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:45	7440-41-7	
Boron	1.6	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:45	7440-43-9	
Calcium	43.2	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:45	7439-92-1	
Lithium	0.0042J	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:45	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:28	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	355	mg/L	25.0	10.0	1		12/21/18 14:01		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	6.6	mg/L	0.25	0.024	1		12/28/18 07:49	16887-00-6	
Fluoride	0.30	mg/L	0.30	0.029	1		12/28/18 07:49	16984-48-8	
Sulfate	150	mg/L	50.0	0.85	50		12/28/18 12:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

QC Batch: 19557 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88494 Matrix: Water
 Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	12/24/18 13:45	

LABORATORY CONTROL SAMPLE: 88495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88496 88497

Parameter	Units	2613019001 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	0.0023	0.0023	92	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19572 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88528 Matrix: Water
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	12/26/18 13:45	
Arsenic	mg/L	ND	0.0050	0.00057	12/26/18 13:45	
Barium	mg/L	ND	0.010	0.00078	12/26/18 13:45	
Beryllium	mg/L	0.00012J	0.0030	0.000050	12/26/18 13:45	
Boron	mg/L	ND	0.040	0.0039	12/26/18 13:45	
Cadmium	mg/L	0.00021J	0.0010	0.000093	12/26/18 13:45	
Calcium	mg/L	ND	0.50	0.014	12/26/18 13:45	
Chromium	mg/L	ND	0.010	0.0016	12/26/18 13:45	
Cobalt	mg/L	ND	0.010	0.00052	12/26/18 13:45	
Lead	mg/L	ND	0.0050	0.00027	12/26/18 13:45	
Lithium	mg/L	ND	0.050	0.00097	12/26/18 13:45	
Molybdenum	mg/L	ND	0.010	0.0019	12/26/18 13:45	
Selenium	mg/L	ND	0.010	0.0014	12/26/18 13:45	
Thallium	mg/L	0.00015J	0.0010	0.00014	12/26/18 13:45	

LABORATORY CONTROL SAMPLE: 88529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	111	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Calcium	mg/L	1	1.1	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88560		88561		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2613031001 Result	MS Spike Conc.	MSD Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	112	75-125	3	20		
Arsenic	mg/L	0.18	0.1	0.1	0.29	0.29	106	106	75-125	0	20		
Barium	mg/L	0.13	0.1	0.1	0.23	0.23	97	100	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Boron	mg/L	0.37	1	1	1.4	1.5	101	108	75-125	5	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	110	109	75-125	1	20		
Calcium	mg/L	50.7	1	1	51.4	52.8	62	202	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20		
Lead	mg/L	0.00028J	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Lithium	mg/L	0.013J	0.1	0.1	0.11	0.11	97	102	75-125	4	20		
Molybdenum	mg/L	0.023	0.1	0.1	0.13	0.14	111	112	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	105	103	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19449 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

LABORATORY CONTROL SAMPLE: 87892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 87893

Parameter	Units	2612966001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1190	1190	0	10	

SAMPLE DUPLICATE: 87894

Parameter	Units	2613021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	500	505	1	10	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19708 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88889 Matrix: Water
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.11J	0.25	0.024	12/28/18 01:38	
Fluoride	mg/L	ND	0.30	0.029	12/28/18 01:38	
Sulfate	mg/L	ND	1.0	0.017	12/28/18 01:38	

LABORATORY CONTROL SAMPLE: 88890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88891 88892

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Chloride	mg/L	10	23.3	10	30.3	70	69	90-110	0	15	M1
Fluoride	mg/L	10	0.54	10	11.1	106	104	90-110	2	15	
Sulfate	mg/L	10	1650	10	557	-10900	-10900	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 88893

Parameter	Units	2613019002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7.0	10	16.6	95	90-110	
Fluoride	mg/L	0.23J	10	10.5	103	90-110	
Sulfate	mg/L	370	10	235	-1360	90-110	E,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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QUALIFIERS

Project: Plant Branch Pond BCD

Pace Project No.: 2613019

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2613019001	BRGWC-50	EPA 3005A	19572	EPA 6020B	19609
2613019002	BRGWC-32S	EPA 3005A	19572	EPA 6020B	19609
2613019003	BRGWC-47	EPA 3005A	19572	EPA 6020B	19609
2613019004	Dup-3	EPA 3005A	19572	EPA 6020B	19609
2613019005	BRGWC-27I	EPA 3005A	19572	EPA 6020B	19609
2613019006	RB-2	EPA 3005A	19572	EPA 6020B	19609
2613019007	FB-2	EPA 3005A	19572	EPA 6020B	19609
2613019008	FB-3	EPA 3005A	19572	EPA 6020B	19609
2613019009	BRGWC-45	EPA 3005A	19572	EPA 6020B	19609
2613019010	BRGWC-52	EPA 3005A	19572	EPA 6020B	19609
2613019001	BRGWC-50	EPA 7470A	19557	EPA 7470A	19591
2613019002	BRGWC-32S	EPA 7470A	19557	EPA 7470A	19591
2613019003	BRGWC-47	EPA 7470A	19557	EPA 7470A	19591
2613019004	Dup-3	EPA 7470A	19557	EPA 7470A	19591
2613019005	BRGWC-27I	EPA 7470A	19557	EPA 7470A	19591
2613019006	RB-2	EPA 7470A	19557	EPA 7470A	19591
2613019007	FB-2	EPA 7470A	19557	EPA 7470A	19591
2613019008	FB-3	EPA 7470A	19557	EPA 7470A	19591
2613019009	BRGWC-45	EPA 7470A	19557	EPA 7470A	19591
2613019010	BRGWC-52	EPA 7470A	19557	EPA 7470A	19591
2613019001	BRGWC-50	SM 2540C	19449		
2613019002	BRGWC-32S	SM 2540C	19449		
2613019003	BRGWC-47	SM 2540C	19449		
2613019004	Dup-3	SM 2540C	19449		
2613019005	BRGWC-27I	SM 2540C	19449		
2613019006	RB-2	SM 2540C	19449		
2613019007	FB-2	SM 2540C	19449		
2613019008	FB-3	SM 2540C	19449		
2613019009	BRGWC-45	SM 2540C	19449		
2613019010	BRGWC-52	SM 2540C	19449		
2613019001	BRGWC-50	EPA 300.0	19708		
2613019002	BRGWC-32S	EPA 300.0	19708		
2613019003	BRGWC-47	EPA 300.0	19708		
2613019004	Dup-3	EPA 300.0	19708		
2613019005	BRGWC-27I	EPA 300.0	19708		
2613019006	RB-2	EPA 300.0	19708		
2613019007	FB-2	EPA 300.0	19708		
2613019008	FB-3	EPA 300.0	19708		
2613019009	BRGWC-45	EPA 300.0	19708		
2613019010	BRGWC-52	EPA 300.0	19708		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical
www.paceanalytical.com

Pace Analytical Services, LLC - Atlanta GA
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McCall Blvd SE 31085
Atlanta, GA 30303 P. 404-506-2234
 REPORT TO: Jojo Abrahams CC: Marta Paulilla
 REQUESTED COMPLETION DATE: 12/20/18 PO#: 14hr.hj@se.athens.ga.com
 PROJECT NAME/STATE: Plant Brunch
 PROJECT #: State LCR

Collection DATE	Collection TIME	MATRIX CODE	SAMPLE IDENTIFICATION			
			C	G	A	B
12-19-18	1045	GW	X			BR6wL-50
12-19-18	1215	GW	X			BR6wL-325
12-19-18	1430	GW	X			BR6wL-47
12-20-18	-	GW	X			Dup-3
12-20-18	1008	GW	X			BR6wL-27F
12-20-18	1000	W	X			RB-2
12-20-18	1005	W	X			FB-2
12-20-18	1020	W	X			FB-3
12-20-18	1030	GW	X			BR6wL-45
12-20-18	1140	GW	X			BR6wL-52

SAMPLED BY AND TITLE: Karen M. King DATE/TIME: 12-20-18 / 1330
 RECEIVED BY: [Signature] DATE/TIME: 12/20/18 / 1540
 RECEIVED BY LAB: [Signature] DATE/TIME: 12/20/18 / 1540
 Temperature: 6.2 Min: 6.2 Max: 6.2
 No. of Containers: 6 No. Broken: 0 No. Present: 6 No. Missing: 0

CONTAINER TYPE		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
P	A	P	A	P	A	1	2
3	7	1	3	3	7	1	3
# of CONTAINERS		Meths AP324 (EPA 8210-C + SM25406)		TOS-111501 (EPA 8210-C + SM25406)		Radon (SW-846 + 228 (1315/4526)	
CONTAINER TYPE		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
L	A	L	A	L	A	1	2
1	D	1	D	1	D	1	2
MATRIX CODES:		REMARKS/ADDITIONAL INFORMATION		MATRIX CODES:		REMARKS/ADDITIONAL INFORMATION	
DW - DRINKING WATER		S - SOIL		DW - DRINKING WATER		S - SOIL	
WW - WASTEWATER		SL - SLUDGE		WW - WASTEWATER		SL - SLUDGE	
GW - GROUNDWATER		SD - SOLID		GW - GROUNDWATER		SD - SOLID	
SW - SURFACE WATER		A - AIR		SW - SURFACE WATER		A - AIR	
ST - STORM WATER		L - LIQUID		ST - STORM WATER		L - LIQUID	
W - WATER		P - PRODUCT		W - WATER		P - PRODUCT	
LAB #:		DATE/TIME:		LAB #:		DATE/TIME:	
2613019		12-20-18 / 1540		2613019		12-20-18 / 1540	
Entered into LIMS:		Tracking #:		Entered into LIMS:		Tracking #:	

NO# : 2613019

 2613019

Sample Condition Upon Receipt

Face Analytical

Client Name: GIA Power

Project # _____

WO#: 2613019

PM: **BM**

Due Date: **12/28/18**

CLIENT: **GAPower=CCR**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Samples on ice, cooling process has begun

Date and initials of person examining contents: 12/20/18 MR

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N.A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N.A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	12.		
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A			
Pace Trip Blank Lot # (if purchased):	_____			

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Field Data Required? Y N

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNP Certification Office via out of hold, incorrect preservative, out of temp, incorrect containers

December 06, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

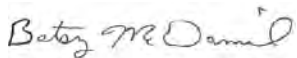
RE: Project: Plant Branch
Pace Project No.: 2612012

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch

Pace Project No.: 2612012

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch

Pace Project No.: 2612012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2612012001	BRGWC-45	Water	11/28/18 16:05	11/29/18 09:00
2612012002	BRGWC-47	Water	11/28/18 11:05	11/29/18 09:00
2612012003	BRGWC-50	Water	11/28/18 12:15	11/29/18 09:00
2612012004	BRGWC-52	Water	11/28/18 14:35	11/29/18 09:00
2612012005	FB-1	Water	11/28/18 11:30	11/29/18 09:00
2612012006	EB-1	Water	11/28/18 16:45	11/29/18 09:00
2612012007	FD-1	Water	11/28/18 00:00	11/29/18 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 2612012

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2612012001	BRGWC-45	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012002	BRGWC-47	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012003	BRGWC-50	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012004	BRGWC-52	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012005	FB-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012006	EB-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012007	FD-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2612012

Sample: BRGWC-45		Lab ID: 2612012001		Collected: 11/28/18 16:05		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:25	7440-36-0		
Arsenic	0.00096J	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:25	7440-38-2		
Barium	0.11	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:25	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:25	7440-41-7		
Boron	0.026J	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:25	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:25	7440-43-9		
Calcium	45.1	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 15:31	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:25	7440-47-3		
Cobalt	0.0071J	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 15:25	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:25	7439-92-1		
Lithium	0.0035J	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:25	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:25	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:25	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:25	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 13:30	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	358	mg/L	25.0	10.0	1		11/29/18 13:08			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	58.1	mg/L	2.5	0.24	10		12/04/18 03:34	16887-00-6	M1	
Fluoride	ND	mg/L	0.30	0.029	1		12/03/18 22:40	16984-48-8		
Sulfate	133	mg/L	10.0	0.17	10		12/04/18 03:34	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: BRGWC-47		Lab ID: 2612012002		Collected: 11/28/18 11:05		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:36	7440-36-0		
Arsenic	0.0019J	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:36	7440-38-2		
Barium	0.039	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:36	7440-39-3		
Beryllium	0.000056J	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:36	7440-41-7		
Boron	0.51	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:36	7440-42-8		
Cadmium	0.00022J	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:36	7440-43-9		
Calcium	354	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 15:42	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:36	7440-47-3		
Cobalt	0.0016J	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 15:36	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:36	7439-92-1		
Lithium	0.044J	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:36	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:36	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:36	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:36	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:09	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2320	mg/L	25.0	10.0	1		11/29/18 13:08			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.1	mg/L	0.25	0.024	1		12/03/18 23:48	16887-00-6		
Fluoride	0.063J	mg/L	0.30	0.029	1		12/03/18 23:48	16984-48-8		
Sulfate	1730	mg/L	50.0	0.85	50		12/04/18 03:57	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2612012

Sample: BRGWC-50		Lab ID: 2612012003		Collected: 11/28/18 12:15		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:59	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:59	7440-38-2		
Barium	0.020	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:59	7440-39-3		
Beryllium	0.0029J	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:59	7440-41-7		
Boron	0.35	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:59	7440-42-8		
Cadmium	0.031	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:59	7440-43-9		
Calcium	254	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 16:05	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:59	7440-47-3		
Cobalt	1.4	mg/L	0.50	0.026	50	11/29/18 12:11	11/30/18 16:05	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:59	7439-92-1		
Lithium	0.041J	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:59	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:59	7439-98-7		
Selenium	0.0017J	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:59	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:59	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:11	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2300	mg/L	25.0	10.0	1		11/29/18 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	24.0	mg/L	0.25	0.024	1		12/04/18 00:11	16887-00-6		
Fluoride	0.41	mg/L	0.30	0.029	1		12/04/18 00:11	16984-48-8		
Sulfate	1780	mg/L	50.0	0.85	50		12/04/18 04:20	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2612012

Sample: BRGWC-52		Lab ID: 2612012004		Collected: 11/28/18 14:35		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 16:16	7440-36-0		
Arsenic	0.0016J	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 16:16	7440-38-2		
Barium	0.017	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 16:16	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 16:16	7440-41-7		
Boron	1.5	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 16:16	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 16:16	7440-43-9		
Calcium	38.2	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 16:22	7440-70-2	M6	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 16:16	7440-47-3		
Cobalt	0.0012J	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 16:16	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 16:16	7439-92-1		
Lithium	0.0052J	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 16:16	7439-93-2		
Molybdenum	0.0027J	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 16:16	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 16:16	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 16:16	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:13	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	357	mg/L	25.0	10.0	1		11/29/18 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	7.2	mg/L	0.25	0.024	1		12/04/18 00:33	16887-00-6		
Fluoride	0.24J	mg/L	0.30	0.029	1		12/04/18 00:33	16984-48-8		
Sulfate	189	mg/L	10.0	0.17	10		12/06/18 11:07	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: FB-1		Lab ID: 2612012005		Collected: 11/28/18 11:30		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00079J	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:08	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:08	7440-38-2		
Barium	0.00090J	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:08	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:08	7440-41-7		
Boron	0.0075J	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:08	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:08	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	11/29/18 12:11	11/30/18 17:08	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:08	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:08	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:08	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:08	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:08	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:08	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:08	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:16	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	11.0J	mg/L	25.0	10.0	1		11/29/18 13:10			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.075J	mg/L	0.25	0.024	1		12/04/18 00:56	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		12/04/18 00:56	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		12/04/18 00:56	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 2612012

Sample: EB-1		Lab ID: 2612012006		Collected: 11/28/18 16:45		Received: 11/29/18 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:14	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:14	7440-38-2		
Barium	0.00088J	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:14	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:14	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:14	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:14	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	11/29/18 12:11	11/30/18 17:14	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:14	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:14	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:14	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:14	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:14	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:14	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:14	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 15:40	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/29/18 13:10			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.098J	mg/L	0.25	0.024	1		12/04/18 01:19	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		12/04/18 01:19	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		12/04/18 01:19	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: FD-1		Lab ID: 2612012007		Collected: 11/28/18 00:00	Received: 11/29/18 09:00	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:19	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:19	7440-38-2	
Barium	0.016	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:19	7440-41-7	
Boron	1.5	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:19	7440-43-9	
Calcium	38.7	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 17:30	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:19	7440-47-3	
Cobalt	0.0011J	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:19	7439-92-1	
Lithium	0.0053J	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:19	7439-93-2	
Molybdenum	0.0027J	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:19	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 15:42	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	336	mg/L	25.0	10.0	1		11/29/18 13:11		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.2	mg/L	0.25	0.024	1		12/04/18 01:41	16887-00-6	
Fluoride	0.45	mg/L	0.30	0.029	1		12/04/18 01:41	16984-48-8	
Sulfate	190	mg/L	10.0	0.17	10		12/04/18 05:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2612012

QC Batch: 18062

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 81216

Matrix: Water

Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	12/03/18 13:17	

LABORATORY CONTROL SAMPLE: 81217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81220

81221

Parameter	Units	2612012001 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	.0025	.0025	0.0023	0.0023	93	93	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 17933 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 80654 Matrix: Water
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	11/30/18 14:50	
Arsenic	mg/L	ND	0.0050	0.00057	11/30/18 14:50	
Barium	mg/L	ND	0.010	0.00078	11/30/18 14:50	
Beryllium	mg/L	ND	0.0030	0.000050	11/30/18 14:50	
Boron	mg/L	ND	0.040	0.0039	11/30/18 14:50	
Cadmium	mg/L	ND	0.0010	0.000093	11/30/18 14:50	
Calcium	mg/L	ND	0.50	0.014	11/30/18 14:50	
Chromium	mg/L	ND	0.010	0.0016	11/30/18 14:50	
Cobalt	mg/L	ND	0.010	0.00052	11/30/18 14:50	
Lead	mg/L	ND	0.0050	0.00027	11/30/18 14:50	
Lithium	mg/L	ND	0.050	0.00097	11/30/18 14:50	
Molybdenum	mg/L	ND	0.010	0.0019	11/30/18 14:50	
Selenium	mg/L	ND	0.010	0.0014	11/30/18 14:50	
Thallium	mg/L	ND	0.0010	0.00014	11/30/18 14:50	

LABORATORY CONTROL SAMPLE: 80655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	101	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.099	99	80-120	
Beryllium	mg/L	.1	0.10	101	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	.1	0.10	100	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.11	106	80-120	
Molybdenum	mg/L	.1	0.10	105	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Thallium	mg/L	.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80656 80657

Parameter	Units	2612012004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result					
Antimony	mg/L	ND	.1	.1	0.10	0.10	102	103	75-125	0	20

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2612012

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80656		80657		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2612012004 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic	mg/L	0.0016J	.1	.1	0.10	0.10	100	100	75-125	0	20		
Barium	mg/L	0.017	.1	.1	0.12	0.12	100	100	75-125	0	20		
Beryllium	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20		
Boron	mg/L	1.5	1	1	2.4	2.6	91	107	75-125	6	20		
Cadmium	mg/L	ND	.1	.1	0.10	0.10	100	100	75-125	0	20		
Calcium	mg/L	38.2	1	1	40.2	41.7	201	353	75-125	4	20	M6	
Chromium	mg/L	ND	.1	.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	0.0012J	.1	.1	0.10	0.10	99	102	75-125	3	20		
Lead	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20		
Lithium	mg/L	0.0052J	.1	.1	0.10	0.10	95	98	75-125	2	20		
Molybdenum	mg/L	0.0027J	.1	.1	0.11	0.11	104	107	75-125	3	20		
Selenium	mg/L	ND	.1	.1	0.097	0.097	97	97	75-125	0	20		
Thallium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 2612012

QC Batch: 17944

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

LABORATORY CONTROL SAMPLE: 80712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	84-108	

SAMPLE DUPLICATE: 80713

Parameter	Units	2611908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1030	1	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 18109 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 81424 Matrix: Water
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.067J	0.25	0.024	12/03/18 21:55	
Fluoride	mg/L	ND	0.30	0.029	12/03/18 21:55	
Sulfate	mg/L	ND	1.0	0.017	12/03/18 21:55	

LABORATORY CONTROL SAMPLE: 81425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.5	105	90-110	
Fluoride	mg/L	10	9.6	96	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81426 81427

Parameter	Units	81426		81427		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2612012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	58.1	10	10	60.1	60.1	20	20	90-110	0	15 E,M1
Fluoride	mg/L	ND	10	10	9.7	9.7	97	97	90-110	0	15
Sulfate	mg/L	133	10	10	103	103	-300	-300	90-110	0	15 E,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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QUALIFIERS

Project: Plant Branch
Pace Project No.: 2612012

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 2612012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2612012001	BRGWC-45	EPA 3005A	17933	EPA 6020B	17956
2612012002	BRGWC-47	EPA 3005A	17933	EPA 6020B	17956
2612012003	BRGWC-50	EPA 3005A	17933	EPA 6020B	17956
2612012004	BRGWC-52	EPA 3005A	17933	EPA 6020B	17956
2612012005	FB-1	EPA 3005A	17933	EPA 6020B	17956
2612012006	EB-1	EPA 3005A	17933	EPA 6020B	17956
2612012007	FD-1	EPA 3005A	17933	EPA 6020B	17956
2612012001	BRGWC-45	EPA 7470A	18062	EPA 7470A	18094
2612012002	BRGWC-47	EPA 7470A	18062	EPA 7470A	18094
2612012003	BRGWC-50	EPA 7470A	18062	EPA 7470A	18094
2612012004	BRGWC-52	EPA 7470A	18062	EPA 7470A	18094
2612012005	FB-1	EPA 7470A	18062	EPA 7470A	18094
2612012006	EB-1	EPA 7470A	18062	EPA 7470A	18094
2612012007	FD-1	EPA 7470A	18062	EPA 7470A	18094
2612012001	BRGWC-45	SM 2540C	17944		
2612012002	BRGWC-47	SM 2540C	17944		
2612012003	BRGWC-50	SM 2540C	17944		
2612012004	BRGWC-52	SM 2540C	17944		
2612012005	FB-1	SM 2540C	17944		
2612012006	EB-1	SM 2540C	17944		
2612012007	FD-1	SM 2540C	17944		
2612012001	BRGWC-45	EPA 300.0	18109		
2612012002	BRGWC-47	EPA 300.0	18109		
2612012003	BRGWC-50	EPA 300.0	18109		
2612012004	BRGWC-52	EPA 300.0	18109		
2612012005	FB-1	EPA 300.0	18109		
2612012006	EB-1	EPA 300.0	18109		
2612012007	FD-1	EPA 300.0	18109		

REPORT OF LABORATORY ANALYSIS

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WO#: 2612012



2612012

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1



CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239
 REPORT TO: Dawn Prell (Dawn_Prell@golder.com) rachel_kirkman@golder.com
 REQUESTED COMPLETION DATE: Standard TAT laburch@southernco.com
 PROJECT NAME/STATE: Plant Branch

CONTAINER TYPE	PRESERVATION	ANALYSIS REQUESTED				CONTAINER TYPE	PRESERVATION
		P	P	P	P		
3&7	3&7						
Meals App III & IV (FPA 6020/7470)	Cl. F. SO. & TDS (FPA 300.0 & SM 2540C)						
	Radium 226 & 228 (GW-648 9315 9320)						
4	BRGWC-45	X	X	X			
4	BRGWC-47	X	X	X			
6	BRGWC-50	X	X	X			
4	BRGWC-52	X	X	X			
4	FB-1	X	X	X			
4	EB-1	X	X	X			
4	FD-1	X	X	X			

PROJECT #: Phase II CCR

Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION
11/28/18	1605	GW	X	X	BRGWC-45
11/28/18	1105	GW	X	X	BRGWC-47
11/28/18	1215	GW	X	X	BRGWC-50
11/28/18	1435	GW	X	X	BRGWC-52
11/28/18	1130	W	X	X	FB-1
11/28/18	1645	W	X	X	EB-1
11/28/18	-	GW	X	X	FD-1

RECEIVED BY LAB: Form M-12
 RECEIVED BY: [Signature]
 DATE/TIME: 11/29/18 0900
 DATE/TIME: 11/27/18 0900
 DATE/TIME: [Blank]
 DATE/TIME: [Blank]

RELINQUISHED BY: [Signature]
 RELINQUISHED BY: [Signature]

SAMPLE SHIPPED VIA: UPS
 COURIER: [Signature]
 # of Coolers: [Blank]

CLIENT: [Signature]
 OTHER: FS
 Coolant ID: [Blank]

Temperature: Min: 2.0 Max: [Blank]
 Intact: [Blank] Broken: [Blank] Not Present: [Blank]

LAB #: [Blank]
 Entered into LIMS: [Blank]
 Tracking #: [Blank]

FOR LAB USE ONLY

Plant Branch COC 11.28.18

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking #: _____

WO#: 2612012

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

PM: **BM** Due Date: **12/06/18**
 CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.0 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 11/29/18 BM

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Field Data Required? Y / N

Project Manager Review: _____ **Date:** _____

November 06, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

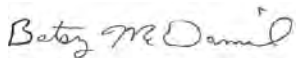
RE: Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2610944001	BRGWC-45	Water	10/29/18 10:50	10/29/18 17:32
2610944002	BRGWC-47	Water	10/29/18 09:35	10/29/18 17:32
2610944003	BRGWC-52	Water	10/29/18 14:00	10/29/18 17:32
2610944004	BRGWC-50	Water	10/29/18 13:00	10/29/18 17:32
2610944005	FB-1	Water	10/29/18 09:10	10/29/18 17:32
2610944006	EB-1	Water	10/29/18 15:00	10/29/18 17:32
2610944007	FD-1	Water	10/29/18 00:00	10/29/18 17:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2610944001	BRGWC-45	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944002	BRGWC-47	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944003	BRGWC-52	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB, RLC	3
2610944004	BRGWC-50	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944005	FB-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944006	EB-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944007	FD-1	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: BRGWC-45		Lab ID: 2610944001		Collected: 10/29/18 10:50		Received: 10/29/18 17:32		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 18:18	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 18:18	7440-38-2		
Barium	0.098	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 18:18	7440-39-3	M1	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 18:18	7440-41-7		
Boron	0.021J	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 18:18	7440-42-8		
Cadmium	0.000098J	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 18:18	7440-43-9		
Calcium	40.8	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 18:24	7440-70-2	M6	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 18:18	7440-47-3		
Cobalt	0.0064J	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 18:18	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 18:18	7439-92-1		
Lithium	0.0030J	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 18:18	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 18:18	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 18:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 18:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	329	mg/L	25.0	10.0	1		11/01/18 18:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	62.6	mg/L	1.2	0.12	5		11/02/18 04:01	16887-00-6	M1	
Fluoride	ND	mg/L	0.30	0.029	1		11/01/18 23:06	16984-48-8		
Sulfate	127	mg/L	5.0	0.085	5		11/02/18 04:01	14808-79-8	M1	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: BRGWC-47		Lab ID: 2610944002		Collected: 10/29/18 09:35		Received: 10/29/18 17:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:10	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:10	7440-38-2	
Barium	0.041	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:10	7440-41-7	
Boron	0.40	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:10	7440-42-8	
Cadmium	0.00019J	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:10	7440-43-9	
Calcium	326	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:10	7440-47-3	
Cobalt	0.0014J	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:10	7439-92-1	
Lithium	0.039J	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:10	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:35	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2130	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	4.3	mg/L	0.25	0.024	1		11/02/18 00:14	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 00:14	16984-48-8	
Sulfate	1720	mg/L	50.0	0.85	50		11/02/18 04:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: BRGWC-52		Lab ID: 2610944003		Collected: 10/29/18 14:00		Received: 10/29/18 17:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:21	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:21	7440-38-2	
Barium	0.025	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:21	7440-41-7	
Boron	1.3	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:21	7440-43-9	
Calcium	39.8	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:21	7440-47-3	
Cobalt	0.0015J	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:21	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:21	7439-92-1	
Lithium	0.0048J	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:21	7439-93-2	
Molybdenum	0.0065J	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:21	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:38	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	334	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.8	mg/L	0.25	0.024	1		11/02/18 00:37	16887-00-6	
Fluoride	0.14J	mg/L	0.30	0.029	1		11/02/18 00:37	16984-48-8	
Sulfate	157	mg/L	50.0	0.85	50		11/06/18 00:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: BRGWC-50		Lab ID: 2610944004		Collected: 10/29/18 13:00	Received: 10/29/18 17:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:33	7440-38-2	
Barium	0.019	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:33	7440-39-3	
Beryllium	0.0042	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/06/18 14:50	7440-41-7	
Boron	0.30	mg/L	0.040	0.0039	1	11/01/18 08:53	11/06/18 14:50	7440-42-8	
Cadmium	0.083	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:33	7440-43-9	
Calcium	236	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:38	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:33	7440-47-3	
Cobalt	1.4	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:33	7440-48-4	
Lead	0.00030J	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:33	7439-92-1	
Lithium	0.041J	mg/L	0.050	0.00097	1	11/01/18 08:53	11/06/18 14:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:33	7439-98-7	
Selenium	0.0020J	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:33	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:40	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2300	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	24.9	mg/L	0.25	0.024	1		11/02/18 00:59	16887-00-6	
Fluoride	0.24J	mg/L	0.30	0.029	1		11/02/18 00:59	16984-48-8	
Sulfate	1750	mg/L	50.0	0.85	50		11/02/18 04:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: FB-1		Lab ID: 2610944005		Collected: 10/29/18 09:10	Received: 10/29/18 17:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:44	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:44	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:44	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:44	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:44	7440-43-9		
Calcium	0.018J	mg/L	0.50	0.014	1	11/01/18 08:53	11/02/18 19:44	7440-70-2	B	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:44	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:44	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:44	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:44	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:47	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/01/18 18:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		11/02/18 01:22	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 01:22	16984-48-8		
Sulfate	0.098J	mg/L	1.0	0.017	1		11/02/18 01:22	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: EB-1		Lab ID: 2610944006		Collected: 10/29/18 15:00		Received: 10/29/18 17:32		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:50	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:50	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:50	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:50	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:50	7440-43-9		
Calcium	0.017J	mg/L	0.50	0.014	1	11/01/18 08:53	11/02/18 19:50	7440-70-2	B	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:50	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:50	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:50	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:50	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:50	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/01/18 18:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		11/02/18 01:45	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 01:45	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		11/02/18 01:45	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Sample: FD-1		Lab ID: 2610944007		Collected: 10/29/18 00:00	Received: 10/29/18 17:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:56	7440-36-0		
Arsenic	0.0029J	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:56	7440-38-2		
Barium	0.025	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:56	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:56	7440-41-7		
Boron	1.3	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:56	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:56	7440-43-9		
Calcium	40.3	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 20:01	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:56	7440-47-3		
Cobalt	0.0015J	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:56	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:56	7439-92-1		
Lithium	0.0047J	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:56	7439-93-2		
Molybdenum	0.0063J	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:56	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:56	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:56	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:52	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	330	mg/L	25.0	10.0	1		11/01/18 18:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	7.7	mg/L	0.25	0.024	1		11/02/18 02:07	16887-00-6		
Fluoride	0.13J	mg/L	0.30	0.029	1		11/02/18 02:07	16984-48-8		
Sulfate	183	mg/L	50.0	0.85	50		11/02/18 05:08	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16397 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73390 Matrix: Water
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	11/01/18 14:21	

LABORATORY CONTROL SAMPLE: 73391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73392 73393

Parameter	Units	2610944001 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	.0025	.0025	0.0023	0.0023	94	94	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16395 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73386 Matrix: Water
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	11/02/18 18:07	
Arsenic	mg/L	ND	0.0050	0.00057	11/02/18 18:07	
Barium	mg/L	ND	0.010	0.00078	11/02/18 18:07	
Beryllium	mg/L	ND	0.0030	0.000050	11/02/18 18:07	
Boron	mg/L	ND	0.040	0.0039	11/02/18 18:07	
Cadmium	mg/L	ND	0.0010	0.000093	11/02/18 18:07	
Calcium	mg/L	0.015J	0.50	0.014	11/02/18 18:07	
Chromium	mg/L	ND	0.010	0.0016	11/02/18 18:07	
Cobalt	mg/L	ND	0.010	0.00052	11/02/18 18:07	
Lead	mg/L	ND	0.0050	0.00027	11/02/18 18:07	
Lithium	mg/L	ND	0.050	0.00097	11/02/18 18:07	
Molybdenum	mg/L	ND	0.010	0.0019	11/02/18 18:07	
Selenium	mg/L	ND	0.010	0.0014	11/02/18 18:07	
Thallium	mg/L	ND	0.0010	0.00014	11/02/18 18:07	

LABORATORY CONTROL SAMPLE: 73387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.098	98	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	.1	0.10	104	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.10	103	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.099	99	80-120	
Molybdenum	mg/L	.1	0.10	104	80-120	
Selenium	mg/L	.1	0.10	103	80-120	
Thallium	mg/L	.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73388 73389

Parameter	Units	2610944001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	.1	.1	0.11	0.11	112	109	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73388		73389		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20		
Barium	mg/L	0.098	.1	.1	0.23	0.22	129	126	75-125	1	20	M1	
Beryllium	mg/L	ND	.1	.1	0.094	0.094	94	94	75-125	0	20		
Boron	mg/L	0.021J	1	1	0.94	0.94	92	92	75-125	0	20		
Cadmium	mg/L	0.000098J	.1	.1	0.11	0.10	106	102	75-125	4	20		
Calcium	mg/L	40.8	1	1	46.2	45.3	533	445	75-125	2	20	M6	
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20		
Cobalt	mg/L	0.0064J	.1	.1	0.11	0.11	107	105	75-125	2	20		
Lead	mg/L	ND	.1	.1	0.10	0.10	103	101	75-125	2	20		
Lithium	mg/L	0.0030J	.1	.1	0.093	0.093	90	90	75-125	0	20		
Molybdenum	mg/L	ND	.1	.1	0.11	0.11	108	107	75-125	1	20		
Selenium	mg/L	ND	.1	.1	0.10	0.10	101	102	75-125	2	20		
Thallium	mg/L	ND	.1	.1	0.10	0.10	102	100	75-125	2	20		

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

QC Batch: 16469

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

LABORATORY CONTROL SAMPLE: 73760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	84-108	

SAMPLE DUPLICATE: 73761

Parameter	Units	2611010001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	41.0	24	10	D6

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

QC Batch: 16403 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73413 Matrix: Water
 Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	11/01/18 22:21	
Fluoride	mg/L	ND	0.30	0.029	11/01/18 22:21	
Sulfate	mg/L	ND	1.0	0.017	11/01/18 22:21	

LABORATORY CONTROL SAMPLE: 73414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.6	106	90-110	
Fluoride	mg/L	10	9.8	98	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73415 73416

Parameter	Units	2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	62.6	10	10	63.3	63.6	7	10	90-110	1	15	E,M1
Fluoride	mg/L	ND	10	10	10.5	10.5	105	105	90-110	1	15	
Sulfate	mg/L	127	10	10	104	104	-226	-225	90-110	0	15	E,M1

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QUALIFIERS

Project: Plant Branch Pond BCD

Pace Project No.: 2610944

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2610944001	BRGWC-45	EPA 3005A	16395	EPA 6020B	16437
2610944002	BRGWC-47	EPA 3005A	16395	EPA 6020B	16437
2610944003	BRGWC-52	EPA 3005A	16395	EPA 6020B	16437
2610944004	BRGWC-50	EPA 3005A	16395	EPA 6020B	16437
2610944005	FB-1	EPA 3005A	16395	EPA 6020B	16437
2610944006	EB-1	EPA 3005A	16395	EPA 6020B	16437
2610944007	FD-1	EPA 3005A	16395	EPA 6020B	16437
2610944001	BRGWC-45	EPA 7470A	16397	EPA 7470A	16440
2610944002	BRGWC-47	EPA 7470A	16397	EPA 7470A	16440
2610944003	BRGWC-52	EPA 7470A	16397	EPA 7470A	16440
2610944004	BRGWC-50	EPA 7470A	16397	EPA 7470A	16440
2610944005	FB-1	EPA 7470A	16397	EPA 7470A	16440
2610944006	EB-1	EPA 7470A	16397	EPA 7470A	16440
2610944007	FD-1	EPA 7470A	16397	EPA 7470A	16440
2610944001	BRGWC-45	SM 2540C	16469		
2610944002	BRGWC-47	SM 2540C	16469		
2610944003	BRGWC-52	SM 2540C	16469		
2610944004	BRGWC-50	SM 2540C	16469		
2610944005	FB-1	SM 2540C	16469		
2610944006	EB-1	SM 2540C	16469		
2610944007	FD-1	SM 2540C	16469		
2610944001	BRGWC-45	EPA 300.0	16403		
2610944002	BRGWC-47	EPA 300.0	16403		
2610944003	BRGWC-52	EPA 300.0	16403		
2610944004	BRGWC-50	EPA 300.0	16403		
2610944005	FB-1	EPA 300.0	16403		
2610944006	EB-1	EPA 300.0	16403		
2610944007	FD-1	EPA 300.0	16403		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		ANALYSIS REQUESTED P P P P 3&7 7 3&7		CONTAINER TYPE PRESERVATION # of P P P P 3&7 7 3&7	
REPORT TO: Dawn Prell (Dawn_Prell@golder.com) REQUESTED COMPLETION DATE: Standard TAT PROJECT NAME/STATE: Plant Branch <i>And BCD</i>		PRESERVATION 1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen		CONTAINER TYPE P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER	
PROJECT # Phase II CCR		MATRIX CODES DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLID SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT		REMARKS/ADDITIONAL INFORMATION <i>Extra Radium</i>	
COLLECTION DATE 10/29/18 10/29/18 10/29/18 10/29/18 10/29/18 10/29/18		MATRIX CODE GW GW GW GW W W GW		SAMPLE IDENTIFICATION BRGWC-45 BRGWC-47 BRGWC-52 <i>PZ-50 BRGWC-50</i> FB-1 EB-1 FD-1	
COLLECTION TIME 1050 0935 1400 1300 0910 1500 1		ANALYSIS REQUESTED P P P P 3&7 7 3&7		CONTAINER TYPE PRESERVATION # of P P P P 3&7 7 3&7	
DATE/TIME 10/29/2018 10/29/2018		DATE/TIME 10/29/18 10/29/18		DATE/TIME 10/29/18 10/29/18	
RECEIVED BY LAB: <i>[Signature]</i> pH checked Yes No NA Temp checked Yes No NA Log checked Yes No NA		SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER OTHER FS Custody intact Broken Not Present		RELINQUISHED BY: <i>[Signature]</i> RELINQUISHED BY: DATE/TIME 10/31/18 1732	
RECEIVED BY: <i>[Signature]</i>		RECEIVED BY: <i>[Signature]</i>		LAB #: FOR LAB USE ONLY	
ENTERED INTO LIMS: Tracking #:		ENTERED INTO LIMS: Tracking #:		ENTERED INTO LIMS: Tracking #:	

WO#: 2610944



Plant Branch COC (App III and IV)

Sample Condition Upon Receipt

WO# : 2610944

Face Analytical

Client Name: Georgia Power

PM: **BM**

Due Date: **11/06/18**

CLIENT: **GAPower-CCR**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 082 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.5°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/29/18 CW

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>GW</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

August 10, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

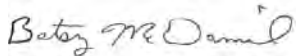
RE: Project: Plant Branch
Pace Project No.: 267818

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch

Pace Project No.: 267818

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch

Pace Project No.: 267818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
267818001	PZ-45	Water	07/31/18 15:30	08/03/18 09:45
267818002	PZ-47	Water	08/01/18 10:10	08/03/18 09:45
267818003	PZ-50	Water	08/01/18 13:20	08/03/18 09:45
267818004	FB-1	Water	08/01/18 09:45	08/03/18 09:45

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SAMPLE ANALYTE COUNT

Project: Plant Branch

Pace Project No.: 267818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
267818001	PZ-45	EPA 6020B	CSW, KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818002	PZ-47	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818003	PZ-50	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818004	FB-1	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 267818

Sample: PZ-45		Lab ID: 267818001		Collected: 07/31/18 15:30		Received: 08/03/18 09:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 16:31	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 16:31	7440-38-2		
Barium	0.087	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 16:31	7440-39-3	M1	
Beryllium	ND	mg/L	0.015	0.00025	5	08/07/18 12:49	08/10/18 13:07	7440-41-7		
Boron	0.035J	mg/L	0.20	0.020	5	08/07/18 12:49	08/10/18 13:07	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 16:31	7440-43-9		
Calcium	41.5	mg/L	2.5	0.069	5	08/07/18 12:49	08/10/18 13:07	7440-70-2	M1	
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 16:31	7440-47-3		
Cobalt	0.0098J	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 16:31	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 16:31	7439-92-1		
Lithium	ND	mg/L	0.25	0.0049	5	08/07/18 12:49	08/10/18 13:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 16:31	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 16:31	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 16:31	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:39	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	393	mg/L	25.0	10.0	1		08/03/18 15:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	59.0	mg/L	2.5	0.24	10		08/03/18 19:41	16887-00-6	M1	
Fluoride	ND	mg/L	0.30	0.029	1		08/03/18 19:20	16984-48-8		
Sulfate	107	mg/L	10.0	0.17	10		08/03/18 19:41	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 267818

Sample: PZ-47		Lab ID: 267818002		Collected: 08/01/18 10:10		Received: 08/03/18 09:45		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 17:44	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 17:44	7440-38-2	
Barium	0.043	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 17:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 17:44	7440-41-7	
Boron	0.39	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 17:44	7440-42-8	
Cadmium	0.00011J	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 17:44	7440-43-9	
Calcium	358	mg/L	25.0	0.69	50	08/07/18 12:49	08/08/18 17:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 17:44	7440-47-3	
Cobalt	0.0040J	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 17:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 17:44	7439-92-1	
Lithium	0.039J	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 17:44	7439-98-7	
Selenium	0.0015J	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 17:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:49	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2190	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	5.2	mg/L	0.25	0.024	1		08/03/18 20:43	16887-00-6	
Fluoride	0.48	mg/L	0.30	0.029	1		08/03/18 20:43	16984-48-8	
Sulfate	1560	mg/L	100	1.7	100		08/03/18 21:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: PZ-50		Lab ID: 267818003		Collected: 08/01/18 13:20		Received: 08/03/18 09:45		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 17:55	7440-36-0	
Arsenic	0.00074J	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 17:55	7440-38-2	
Barium	0.020	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 17:55	7440-39-3	
Beryllium	0.0025J	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 17:55	7440-41-7	
Boron	0.28	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 17:55	7440-42-8	
Cadmium	0.042	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 17:55	7440-43-9	
Calcium	246	mg/L	25.0	0.69	50	08/07/18 12:49	08/08/18 18:01	7440-70-2	
Chromium	0.0046J	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 17:55	7440-47-3	
Cobalt	1.4	mg/L	0.50	0.026	50	08/07/18 12:49	08/08/18 18:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 17:55	7439-92-1	
Lithium	0.036J	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 17:55	7439-93-2	
Molybdenum	0.0033J	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 17:55	7439-98-7	
Selenium	0.0031J	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 17:55	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:51	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2360	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	25.7	mg/L	0.25	0.024	1		08/03/18 21:24	16887-00-6	
Fluoride	2.0	mg/L	0.30	0.029	1		08/03/18 21:24	16984-48-8	
Sulfate	1580	mg/L	50.0	0.85	50		08/03/18 21:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: FB-1		Lab ID: 267818004		Collected: 08/01/18 09:45		Received: 08/03/18 09:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 18:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 18:07	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 18:07	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 18:07	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 18:07	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 18:07	7440-43-9		
Calcium	0.018J	mg/L	0.50	0.014	1	08/07/18 12:49	08/08/18 18:07	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 18:07	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 18:07	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 18:07	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 18:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 18:07	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 18:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 18:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:53	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		08/03/18 15:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.076J	mg/L	0.25	0.024	1		08/03/18 22:05	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		08/03/18 22:05	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		08/03/18 22:05	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 267818

QC Batch: 11249

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50678

Matrix: Water

Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	08/07/18 17:34	

LABORATORY CONTROL SAMPLE: 50679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50680

50681

Parameter	Units	267818001 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	.0025	.0025	0.0026	0.0027	104	106	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11250 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50682 Matrix: Water
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/08/18 16:20	
Arsenic	mg/L	ND	0.0050	0.00057	08/08/18 16:20	
Barium	mg/L	ND	0.010	0.00078	08/08/18 16:20	
Beryllium	mg/L	ND	0.0030	0.000050	08/08/18 16:20	
Boron	mg/L	ND	0.040	0.0039	08/08/18 16:20	
Cadmium	mg/L	ND	0.0010	0.000093	08/08/18 16:20	
Calcium	mg/L	ND	0.50	0.014	08/08/18 16:20	
Chromium	mg/L	ND	0.010	0.0016	08/08/18 16:20	
Cobalt	mg/L	ND	0.010	0.00052	08/08/18 16:20	
Lead	mg/L	ND	0.0050	0.00027	08/08/18 16:20	
Lithium	mg/L	ND	0.050	0.00097	08/08/18 16:20	
Molybdenum	mg/L	ND	0.010	0.0019	08/08/18 16:20	
Selenium	mg/L	ND	0.010	0.0014	08/08/18 16:20	
Thallium	mg/L	ND	0.0010	0.00014	08/08/18 16:20	

LABORATORY CONTROL SAMPLE: 50683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	100	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.096	96	80-120	
Beryllium	mg/L	.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	.1	0.10	101	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	.1	0.10	101	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Lithium	mg/L	.1	0.11	105	80-120	
Molybdenum	mg/L	.1	0.10	100	80-120	
Selenium	mg/L	.1	0.10	100	80-120	
Thallium	mg/L	.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50684 50685

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		267818001 Result	Spike Conc.	Spike Conc.	Conc.							
Antimony	mg/L	ND	.1	.1	.1	0.10	0.098	104	98	75-125	6	20

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 267818

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50684		50685		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	0	20		
Barium	mg/L	0.087	.1	.1	0.24	0.23	153	147	75-125	3	20	M1	
Beryllium	mg/L	ND	.1	.1	0.094	0.095	94	95	75-125	1	20		
Boron	mg/L	0.035J	1	1	0.98	0.95	94	91	75-125	3	20		
Cadmium	mg/L	ND	.1	.1	0.10	0.098	103	98	75-125	5	20		
Calcium	mg/L	41.5	1	1	41.3	40.2	-28	-138	75-125	3	20	M1	
Chromium	mg/L	ND	.1	.1	0.10	0.095	99	95	75-125	5	20		
Cobalt	mg/L	0.0098J	.1	.1	0.11	0.11	98	97	75-125	1	20		
Lead	mg/L	ND	.1	.1	0.097	0.093	97	93	75-125	5	20		
Lithium	mg/L	ND	.1	.1	0.098J	0.095J	94	92	75-125		20		
Molybdenum	mg/L	ND	.1	.1	0.11	0.10	105	100	75-125	6	20		
Selenium	mg/L	ND	.1	.1	0.10	0.10	104	104	75-125	0	20		
Thallium	mg/L	ND	.1	.1	0.099	0.095	99	95	75-125	4	20		

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 267818

QC Batch:	11083	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	267818001, 267818002, 267818003, 267818004		

LABORATORY CONTROL SAMPLE: 50012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	84-108	

SAMPLE DUPLICATE: 50013

Parameter	Units	267818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	393	388	1	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11089 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50043 Matrix: Water
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	08/03/18 18:39	
Fluoride	mg/L	ND	0.30	0.029	08/03/18 18:39	
Sulfate	mg/L	ND	1.0	0.017	08/03/18 18:39	

LABORATORY CONTROL SAMPLE: 50044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.5	105	90-110	
Fluoride	mg/L	10	10.7	107	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50045 50046

Parameter	Units	267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	59.0	10	10	63.2	63.1	42	41	90-110	0	15	E,M1
Fluoride	mg/L	ND	10	10	10.4	10.4	104	104	90-110	0	15	
Sulfate	mg/L	107	10	10	102	102	-50	-51	90-110	0	15	E,M1

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QUALIFIERS

Project: Plant Branch

Pace Project No.: 267818

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch

Pace Project No.: 267818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
267818001	PZ-45	EPA 3005A	11250	EPA 6020B	11364
267818002	PZ-47	EPA 3005A	11250	EPA 6020B	11364
267818003	PZ-50	EPA 3005A	11250	EPA 6020B	11364
267818004	FB-1	EPA 3005A	11250	EPA 6020B	11364
267818001	PZ-45	EPA 7470A	11249	EPA 7470A	11271
267818002	PZ-47	EPA 7470A	11249	EPA 7470A	11271
267818003	PZ-50	EPA 7470A	11249	EPA 7470A	11271
267818004	FB-1	EPA 7470A	11249	EPA 7470A	11271
267818001	PZ-45	SM 2540C	11083		
267818002	PZ-47	SM 2540C	11083		
267818003	PZ-50	SM 2540C	11083		
267818004	FB-1	SM 2540C	11083		
267818001	PZ-45	EPA 300.0	11089		
267818002	PZ-47	EPA 300.0	11089		
267818003	PZ-50	EPA 300.0	11089		
267818004	FB-1	EPA 300.0	11089		

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		CONTAINER TYPE: PRESERVATION # of		ANALYSIS REQUESTED		CONTAINER TYPE: PRESERVATION	
REPORT TO: Dawn Prell (Dawn_Prell@golder.com) REQUESTED COMPLETION DATE: Standard TAT		CC: Rachel Kirkman (rachel_kirkman@golder.com) PO #: Laburch@southernco.com		P 3&7 P 7 P 3&7		P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER	
PROJECT NAME/STATE: Plant Branch		PROJECT #: Phase II CCR		I D N U M B E R		PRESERVATION 1 - HCl, 56°C 2 - H ₂ SO ₄ , 56°C 3 - HNO ₃ 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na ₂ S ₂ O ₃ , 56°C 7 - 56°C not frozen	
Collection DATE		Collection TIME		MATRIX CODE		MATRIX CODES: DW - DRINKING WATER WW - WASTEWATER GW - GROUNDWATER SW - SURFACE WATER ST - STORM WATER W - WATER	
07/31/18 08/01/18 08/01/18 08/01/18		1530 1010 1320 0945		GW GW GW W		S - SOIL SL - SLUDGE SD - SOLID A - AIR L - LIQUID P - PRODUCT	
Sample Identification		PZ-45 PZ-47 PZ-50 FB-1		4 4 4 4		REMARKS/ADDITIONAL INFORMATION	
SAMPLED BY AND TITLE: Kanm Minkara Geologist		DATE/TIME: 8/2/2018		RELINQUISHED BY: [Signature]		DATE/TIME: 8/2/18 1700	
RECEIVED BY: [Signature]		DATE/TIME: 8/2/18 0945		RELINQUISHED BY: [Signature]		DATE/TIME: 8/2/18 1700	
RECEIVED BY LAB: [Signature]		DATE/TIME: 8/2/18 0945		SAMPLE SHIPPED VIA: UPS		CLIENT:	
Temperature: Yes No NA		Yes No NA		Courier: # of Coolers		OTHER:	
Broken:		Not Present		Cooler ID:		FS	
Entered into LIMS:		Tracking #:		LAB #:		FOR LAB USE ONLY	

WO#: 267818



FOR LAB USE ONLY

Sample Condition Upon Receipt

Pace Analytical

Client Name: GAPower

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 78212447 3256

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

WO#: 267818

PM: BM

Due Date: 08/10/18

CLIENT: GAPower-CCR

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 8/3/18 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
Includes date/time/ID/Analysis Matrix:	<u>GLW</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):	_____			

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Field Data Required?

Y N

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

July 10, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

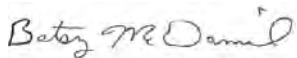
RE: Project: Plant Branch
Pace Project No.: 266665

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch

Pace Project No.: 266665

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch

Pace Project No.: 266665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
266665001	BRGWC-30I	Water	06/28/18 08:45	06/29/18 10:15
266665002	BRGWC-45	Water	06/28/18 11:05	06/29/18 10:15
266665003	BRGWC-50	Water	06/28/18 09:55	06/29/18 10:15

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SAMPLE ANALYTE COUNT

Project: Plant Branch

Pace Project No.: 266665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
266665001	BRGWC-30I	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
266665002	BRGWC-45	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
266665003	BRGWC-50	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 266665

Sample: BRGWC-30I		Lab ID: 266665001		Collected: 06/28/18 08:45		Received: 06/29/18 10:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 19:48	7440-36-0	
Arsenic	0.00073J	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 19:48	7440-38-2	
Barium	0.023	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 19:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 19:48	7440-41-7	
Boron	1.4	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 19:48	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 19:48	7440-43-9	
Calcium	73.3	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 19:54	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 19:48	7440-47-3	
Cobalt	0.00078J	mg/L	0.010	0.00052	1	07/02/18 09:21	07/02/18 19:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 19:48	7439-92-1	
Lithium	0.013J	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 19:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 19:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 19:48	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:00	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	494	mg/L	10.0	10.0	1		07/03/18 14:34		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.0	mg/L	0.25	0.024	1		07/03/18 21:42	16887-00-6	
Fluoride	0.93	mg/L	0.30	0.029	1		07/03/18 21:42	16984-48-8	
Sulfate	276	mg/L	10.0	0.17	10		07/07/18 18:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch

Pace Project No.: 266665

Sample: BRGWC-45		Lab ID: 266665002		Collected: 06/28/18 11:05		Received: 06/29/18 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 20:11	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 20:11	7440-38-2	
Barium	0.067	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 20:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 20:11	7440-41-7	
Boron	0.025J	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 20:11	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 20:11	7440-43-9	
Calcium	41.9	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 20:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 20:11	7440-47-3	
Cobalt	0.010	mg/L	0.010	0.00052	1	07/02/18 09:21	07/02/18 20:11	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 20:11	7439-92-1	
Lithium	0.0028J	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 20:11	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 20:11	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:02	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	333	mg/L	10.0	10.0	1		07/03/18 14:34		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	50.2	mg/L	1.2	0.12	5		07/07/18 18:30	16887-00-6	
Fluoride	0.69	mg/L	0.30	0.029	1		07/03/18 22:03	16984-48-8	
Sulfate	109	mg/L	5.0	0.085	5		07/07/18 18:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 266665

Sample: BRGWC-50		Lab ID: 266665003		Collected: 06/28/18 09:55		Received: 06/29/18 10:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 20:23	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 20:23	7440-38-2		
Barium	0.021	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 20:23	7440-39-3		
Beryllium	0.0030J	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 20:23	7440-41-7		
Boron	0.34	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 20:23	7440-42-8		
Cadmium	0.087	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 20:23	7440-43-9		
Calcium	242	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 20:29	7440-70-2		
Chromium	0.0023J	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 20:23	7440-47-3		
Cobalt	1.3	mg/L	0.50	0.026	50	07/02/18 09:21	07/02/18 20:29	7440-48-4		
Lead	0.00054J	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 20:23	7439-92-1		
Lithium	0.040J	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 20:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 20:23	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 20:23	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 20:23	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:05	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	2290	mg/L	10.0	10.0	1		07/03/18 14:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	24.0	mg/L	0.25	0.024	1		07/03/18 23:49	16887-00-6		
Fluoride	1.1	mg/L	0.30	0.029	1		07/03/18 23:49	16984-48-8		
Sulfate	1530	mg/L	50.0	0.85	50		07/07/18 18:52	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 266665

QC Batch: 9168

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 41848

Matrix: Water

Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000040J	0.00020	0.000036	07/03/18 12:29	

LABORATORY CONTROL SAMPLE: 41849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41850

41851

Parameter	Units	266662001 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	.0025	.0025	0.0025	0.0025	98	100	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9111 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 41720 Matrix: Water
Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	07/02/18 17:41	
Arsenic	mg/L	ND	0.0050	0.00057	07/02/18 17:41	
Barium	mg/L	ND	0.010	0.00078	07/02/18 17:41	
Beryllium	mg/L	ND	0.0030	0.000050	07/02/18 17:41	
Boron	mg/L	ND	0.040	0.0039	07/02/18 17:41	
Cadmium	mg/L	ND	0.0010	0.000093	07/02/18 17:41	
Calcium	mg/L	0.016J	0.50	0.014	07/02/18 17:41	
Chromium	mg/L	ND	0.010	0.0016	07/02/18 17:41	
Cobalt	mg/L	ND	0.010	0.00052	07/02/18 17:41	
Lead	mg/L	ND	0.0050	0.00027	07/02/18 17:41	
Lithium	mg/L	ND	0.050	0.00097	07/02/18 17:41	
Molybdenum	mg/L	ND	0.010	0.0019	07/02/18 17:41	
Selenium	mg/L	ND	0.010	0.0014	07/02/18 17:41	
Thallium	mg/L	ND	0.0010	0.00014	07/02/18 17:41	

LABORATORY CONTROL SAMPLE: 41721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.11	106	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.1	111	80-120	
Chromium	mg/L	.1	0.10	104	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.11	107	80-120	
Molybdenum	mg/L	.1	0.10	103	80-120	
Selenium	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41722 41723

Parameter	Units	266662001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	.1	0.11	0.11	0.11	106	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41722		41723		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		266662001 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic	mg/L	0.00074J	.1	.1	0.11	0.10	104	104	75-125	0	20		
Barium	mg/L	0.035	.1	.1	0.14	0.14	103	106	75-125	3	20		
Beryllium	mg/L	0.000081J	.1	.1	0.092	0.095	92	95	75-125	3	20		
Boron	mg/L	0.89	1	1	1.8	2.0	95	106	75-125	6	20		
Cadmium	mg/L	ND	.1	.1	0.10	0.11	105	106	75-125	1	20		
Calcium	mg/L	51.0	1	1	52.1	52.7	113	174	75-125	1	20	M6	
Chromium	mg/L	0.0076J	.1	.1	0.11	0.11	104	104	75-125	0	20		
Cobalt	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20		
Lead	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20		
Lithium	mg/L	0.0022J	.1	.1	0.092	0.092	90	90	75-125	0	20		
Molybdenum	mg/L	ND	.1	.1	0.10	0.11	105	107	75-125	2	20		
Selenium	mg/L	0.0033J	.1	.1	0.11	0.11	104	104	75-125	0	20		
Thallium	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch

Pace Project No.: 266665

QC Batch: 9106

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 266665001, 266665002, 266665003

LABORATORY CONTROL SAMPLE: 41707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	84-108	

SAMPLE DUPLICATE: 41708

Parameter	Units	266622002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	960	986	3	10	

SAMPLE DUPLICATE: 41711

Parameter	Units	266662006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	14.0	15.0	7	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9216 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 42027 Matrix: Water
Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.11J	0.25	0.024	07/03/18 18:10	
Fluoride	mg/L	ND	0.30	0.029	07/03/18 18:10	
Sulfate	mg/L	ND	1.0	0.017	07/03/18 18:10	

LABORATORY CONTROL SAMPLE: 42028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10	100	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 42029 42030

Parameter	Units	266662001 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	10	10	15.2	15.4	62	64	90-110	1	15	M1
Fluoride	mg/L	0.51	10	10	11.4	11.7	109	112	90-110	2	15	M1
Sulfate	mg/L	284	10	10	199	199	-849	-848	90-110	0	15	E, M1

MATRIX SPIKE SAMPLE: 42031

Parameter	Units	266662002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.1	10	11.8	97	90-110	
Fluoride	mg/L	ND	10	11.4	114	90-110	M1
Sulfate	mg/L	0.24J	10	10.1	99	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch

Pace Project No.: 266665

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch

Pace Project No.: 266665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
266665001	BRGWC-30I	EPA 3005A	9111	EPA 6020B	9167
266665002	BRGWC-45	EPA 3005A	9111	EPA 6020B	9167
266665003	BRGWC-50	EPA 3005A	9111	EPA 6020B	9167
266665001	BRGWC-30I	EPA 7470A	9168	EPA 7470A	9224
266665002	BRGWC-45	EPA 7470A	9168	EPA 7470A	9224
266665003	BRGWC-50	EPA 7470A	9168	EPA 7470A	9224
266665001	BRGWC-30I	SM 2540C	9106		
266665002	BRGWC-45	SM 2540C	9106		
266665003	BRGWC-50	SM 2540C	9106		
266665001	BRGWC-30I	EPA 300.0	9216		
266665002	BRGWC-45	EPA 300.0	9216		
266665003	BRGWC-50	EPA 300.0	9216		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX/NUMBER:
 241 Ralph McCall Blvd SE 31085
 Atlanta, GA 30333 P. 404.506.7234
 REPORT TO: J. M. Ahlstrom CC: Maria Piedra
 REQUESTED COMPLETION DATE: PO#: White Mountain
 PROJECT NAME/STATE: Plant Branch
 PROJECT #: State LR

Collection DATE	Collection TIME	MATRIX CODE	SAMPLE IDENTIFICATION	CONTAINER TYPE				ANALYSIS REQUESTED	DATE/TIME	RELINQUISHED BY	DATE/TIME
				LA	AB	LD	NUM				
6-28-18	0845	6W	BRGWC-30T	3	7	3	Meths A173 LC A173 LC (EP) A173 LC (EP) F1501 R228 (SM254C) Radium (Sw. 8.46 1315/1520)	6-24-18 / 0800	J. M. Ahlstrom	6-24-18 / 0800	
6-28-18	1105	6W	BRGWC-45	1	1	2		6-28-18 / 1800			
6-28-18	0955	6W	BRGWC-50	1	1	2		6-28-18 / 1800			

CONTAINER TYPE: P- PLASTIC, A- AMBER GLASS, G- CLEAR GLASS, V- VOA VIAL, S- STERILE, O- OTHER
 MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT
 REMARKS/ADDITIONAL INFORMATION: + 2 Radon

WO#: 266665

FOR LAB USE ONLY
 LAB #: 266665
 Entered into LIMS: Tracking #:

RECEIVED BY: J. M. Ahlstrom
 RECEIVED BY LAB: J. M. Ahlstrom
 DATE/TIME: 6/28/18 10:15
 SAMPLE SHIPPED VIA: COURIER
 UPS FED-EX USPS
 Custody Seal: (Intact) Broken Not Present N/A



Sample Condition Upon Receipt

Client Name: GRA Power

Project #
WO# : 266665
PM: BM
CLIENT: GRA Power-CCR
Due Date: 07/09/18

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: 83
Type of Ice: Wat Blue None

Cooler Temperature: 1.8
Biological Tissue is Frozen: Yes No
Comments: _____
Temp should be above freezing to 6°C

Samples on ice, cooling process has begun
Date and Initials of person examining contents: 6/29/18 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix: <u>GRA</u>				
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Field Data Required? Y N

Comments, Resolution: _____

Project Manager Review: _____ Date: _____

ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-19131-1
Client Project/Site: SCS Site, Plant Branch

For:

Golder Associates Inc.
5170 Peachtree Road
Building 100, Suite 300
Atlanta, Georgia 30341

Attn: Brian Steele



*Authorized for release by:
6/25/2020 3:51:10 PM*

Ryan Henry, Project Manager I
(865)291-3000
william.henry@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Qualifiers

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Job ID: 140-19131-1

Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative 140-19131-1

Receipt

The samples were received on 5/20/2020 at 9:45am and arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Job ID: 140-19131-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: The following samples were diluted due to the presence of Iron which interferes with Cadmium and Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10) and PZ-53D 30 FT BGS (140-19131-11). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of Manganese which interferes with Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1) and PZ-52D 18 FT BGS (140-19131-7). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of titanium which interferes with Cobalt: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted to bring the concentration of target analyte, aluminum, within the calibration range: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: BRGWA-6S(2) 42 FT BGS (140-19131-5) and BRGWC-50(2) 63-63.5 FT BGS (140-19131-10).

Method 6010B SEP: The following sample was diluted due to the presence of silicon which interferes with Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1). Elevated reporting limits (RLs) are provided.

Method 6010B SEP: The following samples were diluted due to the nature of the sample matrix: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided for aluminum. The serial dilution analysis indicated a matrix issue with the results for aluminum increasing with dilution.

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Job ID: 140-19131-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

- 1
- 2
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- 10
- 11
- 12
- 13

Sample Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-19131-1	BRGWA-2S(2) 39 FT BGS	Solid	05/13/20 14:30	05/20/20 09:45	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Solid	05/13/20 14:40	05/20/20 09:45	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Solid	05/14/20 07:40	05/20/20 09:45	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Solid	05/14/20 07:50	05/20/20 09:45	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Solid	05/14/20 12:05	05/20/20 09:45	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Solid	05/14/20 12:15	05/20/20 09:45	
140-19131-7	PZ-52D 18 FT BGS	Solid	05/14/20 14:40	05/20/20 09:45	
140-19131-8	PZ-52D 24-25 FT BGS	Solid	05/14/20 14:50	05/20/20 09:45	
140-19131-9	BRGWC-50(2) 59 FT BGS	Solid	05/15/20 09:00	05/20/20 09:45	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Solid	05/15/20 09:20	05/20/20 09:45	
140-19131-11	PZ-53D 30 FT BGS	Solid	05/16/20 16:15	05/20/20 09:45	
140-19131-12	PZ-53D 36 FT BGS	Solid	05/16/20 16:25	05/20/20 09:45	

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 71.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		56	9.0	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Beryllium	ND		1.4	0.43	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Cadmium	ND		1.4	0.090	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Cobalt	ND		14	0.25	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Iron	ND		28	16	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Manganese	0.37	J	4.2	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Selenium	ND		2.8	0.96	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.9	J *	42	6.8	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Beryllium	ND	*	1.1	0.068	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Cadmium	ND		1.1	0.046	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Iron	ND	*	21	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Selenium	ND		2.1	0.72	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	270		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Beryllium	0.16	J	0.35	0.021	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Cadmium	0.016	J B *	0.35	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Cobalt	14		3.5	0.063	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Iron	2000		7.0	4.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Manganese	320	B	1.1	0.038	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Selenium	0.45	J	0.70	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1900		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Beryllium	0.77		0.35	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Cadmium	ND		0.35	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Cobalt	6.5		3.5	0.075	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Iron	17000		7.0	4.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Manganese	240		1.1	0.18	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Selenium	1.5	B *	0.70	0.66	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	210	**1	210	33	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Beryllium	ND	*	5.3	0.44	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Cadmium	ND		5.3	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Cobalt	ND	*	53	0.84	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Iron	ND	**1	110	62	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Manganese	3.0	J *	16	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Selenium	ND		11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 71.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.29	J	0.35	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Cadmium	ND	L	0.35	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Cobalt	8.3		7.0	0.13	mg/Kg	☼	06/12/20 08:00	06/19/20 16:54	2
Iron	24000		7.0	4.1	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Manganese	71		1.1	0.35	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Selenium	0.79		0.70	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:00	10
Beryllium	ND		0.35	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 13:18	1
Cadmium	0.21	J	1.8	0.077	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Cobalt	8.1	J	18	0.18	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Iron	39000		35	29	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Manganese	290		1.1	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 13:18	1
Selenium	ND		3.5	1.2	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	69000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	1.2		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.22	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	36		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	82000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	930		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.8		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	92000		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Beryllium	0.66		0.35	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 12:43	1
Cadmium	1.4	J	3.5	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Cobalt	72		70	0.73	mg/Kg	☼	05/29/20 08:00	06/23/20 17:24	20
Iron	97000		70	58	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Manganese	1700		2.1	0.31	mg/Kg	☼	05/29/20 08:00	06/23/20 16:04	2
Selenium	3.2	J	7.0	2.4	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 75.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		53	8.5	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Beryllium	ND		1.3	0.41	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Cadmium	ND		1.3	0.085	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Cobalt	ND		13	0.24	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Iron	ND		27	15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Manganese	0.80	J	4.0	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Selenium	ND		2.7	0.91	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.6	J *	40	6.4	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Beryllium	ND	*	1.0	0.064	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Cadmium	ND		1.0	0.044	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Cobalt	ND		10	0.25	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Iron	ND	*	20	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Manganese	ND		3.0	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Selenium	ND		2.0	0.68	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	290		13	2.8	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Beryllium	0.15	J	0.33	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Cadmium	ND	*	0.33	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Cobalt	14		3.3	0.060	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Iron	1100		6.7	3.9	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Manganese	94	B	1.0	0.036	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Selenium	0.38	J	0.67	0.23	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2400		13	2.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Beryllium	0.47		0.33	0.021	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Cadmium	ND		0.33	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Cobalt	13		3.3	0.071	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Iron	10000		6.7	3.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Manganese	89		1.0	0.17	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Selenium	1.1	B *	0.67	0.63	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	240	**1	200	31	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Beryllium	ND	*	5.0	0.42	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Cadmium	ND		5.0	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Cobalt	ND	*	50	0.80	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Iron	ND	**1	100	59	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Manganese	ND	*	15	2.5	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Selenium	4.2	J	10	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 75.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.16	J	0.33	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Cadmium	ND		0.33	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Cobalt	5.2		3.3	0.061	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Iron	15000		6.7	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Manganese	32		1.0	0.33	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Selenium	0.64	J	0.67	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	36000		130	21	mg/Kg	☼	06/15/20 08:00	06/22/20 15:05	10
Beryllium	ND		0.33	0.010	mg/Kg	☼	06/15/20 08:00	06/22/20 13:23	1
Cadmium	0.59	J	1.7	0.073	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5
Cobalt	28	J	33	0.35	mg/Kg	☼	06/15/20 08:00	06/22/20 15:05	10
Iron	71000		33	27	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5
Manganese	840		1.0	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 13:23	1
Selenium	3.0	J	3.3	1.1	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	55000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.78		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.59		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	60		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	97000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1100		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	9.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80000		130	21	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Beryllium	0.46		0.33	0.010	mg/Kg	☼	05/29/20 08:00	06/23/20 12:49	1
Cadmium	1.6	J	3.3	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Cobalt	54	J	67	0.69	mg/Kg	☼	05/29/20 08:00	06/23/20 17:29	20
Iron	98000		67	55	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Manganese	840		1.0	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 12:49	1
Selenium	3.9	J	6.7	2.3	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		48	7.6	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Beryllium	ND		1.2	0.37	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Cadmium	ND		1.2	0.076	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Cobalt	ND		12	0.21	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Manganese	0.44	J	3.6	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Selenium	ND		2.4	0.81	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.2	J *	36	5.7	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Beryllium	ND	*	0.89	0.057	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Cadmium	ND		0.89	0.039	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Cobalt	ND		8.9	0.22	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Iron	ND	*	18	10	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Selenium	0.72	J	1.8	0.61	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	130		12	2.5	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Beryllium	0.073	J	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Cadmium	0.023	J B *	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Cobalt	6.0		3.0	0.053	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Iron	410		5.9	3.4	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Manganese	78	B	0.89	0.032	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Selenium	ND		0.59	0.20	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1900		12	1.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Beryllium	0.21	J	0.30	0.019	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Cobalt	2.9	J	3.0	0.063	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Iron	4500		5.9	3.4	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Manganese	40		0.89	0.15	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Selenium	1.0	B *	0.59	0.56	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	77	J * *1	180	28	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Beryllium	ND	*	4.5	0.37	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Cadmium	ND		4.5	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Cobalt	ND	*	45	0.71	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Iron	ND	* *1	89	52	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Manganese	ND	*	13	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Selenium	ND		8.9	3.1	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.075	J	0.30	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Cobalt	5.4		3.0	0.055	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Iron	11000		5.9	3.4	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Manganese	42		0.89	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Selenium	0.41	J	0.59	0.20	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	34000		120	19	mg/Kg	☼	06/15/20 08:00	06/22/20 15:10	10
Beryllium	0.33		0.30	0.0089	mg/Kg	☼	06/15/20 08:00	06/22/20 13:29	1
Cadmium	ND		1.5	0.065	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Cobalt	15		15	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Iron	45000		30	24	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Manganese	580		0.89	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 13:29	1
Selenium	1.2	J	3.0	1.0	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	47000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.69		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.023	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	30		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	60000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	740		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	3.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	86000		120	19	mg/Kg	☼	05/29/20 08:00	06/23/20 14:37	10
Beryllium	0.60		0.30	0.0089	mg/Kg	☼	05/29/20 08:00	06/23/20 12:54	1
Cadmium	2.2		0.59	0.026	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2
Cobalt	43		30	0.31	mg/Kg	☼	05/29/20 08:00	06/23/20 14:37	10
Iron	56000		12	9.7	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2
Manganese	750		0.89	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 12:54	1
Selenium	ND		1.2	0.40	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Lab Sample ID: 140-19131-4

Date Collected: 05/14/20 07:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		49	7.8	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Beryllium	ND		1.2	0.37	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Cadmium	ND		1.2	0.078	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Cobalt	ND		12	0.22	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Manganese	0.43	J	3.6	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Selenium	ND		2.4	0.83	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.5	J *	36	5.8	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Beryllium	ND	*	0.91	0.058	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Cadmium	ND		0.91	0.040	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Cobalt	ND		9.1	0.23	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Iron	ND	*	18	11	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Selenium	0.73	J	1.8	0.62	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		12	2.6	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Beryllium	0.089	J	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Cadmium	0.021	J B *	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Cobalt	4.9		3.0	0.055	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Iron	590		6.1	3.5	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Manganese	120	B	0.91	0.033	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1800		12	1.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Beryllium	0.25	J	0.30	0.019	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Cadmium	0.018	J	0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Cobalt	2.7	J	3.0	0.064	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Iron	4700		6.1	3.5	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Manganese	65		0.91	0.16	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Selenium	0.90	B *	0.61	0.57	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	160	J * *1	180	29	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Beryllium	ND	*	4.6	0.38	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Cadmium	ND		4.6	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Cobalt	ND	*	46	0.73	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Iron	ND	* *1	91	53	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Manganese	ND	*	14	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Selenium	ND		9.1	3.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		12	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Lab Sample ID: 140-19131-4

Date Collected: 05/14/20 07:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.082	J	0.30	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Cobalt	4.0		3.0	0.056	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Iron	9100		6.1	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Manganese	32		0.91	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		120	19	mg/Kg	☼	06/15/20 08:00	06/22/20 15:15	10
Beryllium	0.35		0.30	0.0091	mg/Kg	☼	06/15/20 08:00	06/22/20 13:50	1
Cadmium	0.17	J	1.5	0.067	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Cobalt	18		15	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Iron	53000		30	25	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Manganese	690		0.91	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 13:50	1
Selenium	1.1	J	3.0	1.0	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.77		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.21	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	29		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	68000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	900		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.7		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	87000		120	19	mg/Kg	☼	05/29/20 08:00	06/23/20 14:41	10
Beryllium	0.67		0.30	0.0091	mg/Kg	☼	05/29/20 08:00	06/23/20 13:16	1
Cadmium	2.2		0.61	0.027	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2
Cobalt	36		30	0.32	mg/Kg	☼	05/29/20 08:00	06/23/20 14:41	10
Iron	58000		12	10	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2
Manganese	770		0.91	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 13:16	1
Selenium	ND		1.2	0.41	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		57	9.2	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Beryllium	ND		1.4	0.44	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Cadmium	ND		1.4	0.092	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Cobalt	ND		14	0.26	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Iron	ND		29	17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Manganese	0.25	J	4.3	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Selenium	ND		2.9	0.98	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.7	J *	43	6.9	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Beryllium	ND	*	1.1	0.069	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Cadmium	ND		1.1	0.047	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Iron	ND	*	22	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Selenium	ND		2.2	0.73	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	220		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Beryllium	0.049	J	0.36	0.022	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Cadmium	0.11	J B *	0.36	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Cobalt	19		3.6	0.065	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Iron	490		7.2	4.2	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Manganese	430	B	1.1	0.039	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Selenium	0.27	J	0.72	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3100		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Beryllium	0.45		0.36	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Cadmium	ND		0.36	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Cobalt	9.9		3.6	0.076	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Iron	10000		7.2	4.2	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Manganese	270		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Selenium	1.4	B *	0.72	0.67	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140	J * *1	220	34	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Beryllium	ND	*	5.4	0.45	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Cadmium	ND		5.4	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Cobalt	ND	*	54	0.86	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Iron	ND	* *1	110	63	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Manganese	3.5	J *	16	2.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Selenium	4.3	J	11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1

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Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.7

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.15	J	0.36	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Cadmium	ND	L	0.36	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Cobalt	5.2		3.6	0.066	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Iron	20000		7.2	4.2	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Manganese	54		1.1	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Selenium	0.69	J	0.72	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:20	10
Beryllium	0.19	J	0.36	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Cadmium	0.49		0.36	0.016	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Cobalt	8.7	J	18	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 16:47	5
Iron	34000		7.2	5.9	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Manganese	260		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Selenium	0.90		0.72	0.24	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	57000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.84		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.60		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	43		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	65000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1000		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	7.5		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	110000		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:46	10
Beryllium	0.66	J	0.72	0.022	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Cadmium	1.7		0.72	0.032	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Cobalt	58		36	0.37	mg/Kg	☼	05/29/20 08:00	06/23/20 14:46	10
Iron	61000		14	12	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Manganese	1100		2.2	0.32	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Selenium	0.94	J	1.4	0.49	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6

Date Collected: 05/14/20 12:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.9

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		57	9.1	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Beryllium	ND		1.4	0.44	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Cadmium	ND		1.4	0.091	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Cobalt	ND		14	0.26	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Iron	ND		29	17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Manganese	0.67	J	4.3	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Selenium	ND		2.9	0.97	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.2	J *	43	6.9	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Beryllium	ND	*	1.1	0.069	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Cadmium	ND		1.1	0.047	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Iron	ND	*	21	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Selenium	ND		2.1	0.73	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	230		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Beryllium	0.066	J	0.36	0.021	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Cadmium	0.094	J B *	0.36	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Cobalt	21		3.6	0.064	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Iron	480		7.1	4.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Manganese	460	B	1.1	0.039	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Selenium	0.29	J	0.71	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2600		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Beryllium	0.20	J	0.36	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Cadmium	0.022	J	0.36	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Cobalt	9.9		3.6	0.076	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Iron	5500		7.1	4.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Manganese	210		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Selenium	1.6	B *	0.71	0.67	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	96	J * *1	210	34	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Beryllium	ND	*	5.4	0.45	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Cadmium	ND		5.4	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Cobalt	ND	*	54	0.86	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Iron	ND	* *1	110	63	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Manganese	3.8	J *	16	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Selenium	ND		11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6

Date Collected: 05/14/20 12:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.9

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.11	J	0.36	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Cadmium	ND		0.36	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Cobalt	5.6		3.6	0.066	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Iron	20000		7.1	4.1	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Manganese	40		1.1	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Selenium	0.59	J	0.71	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	29000		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:25	10
Beryllium	ND		0.36	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:01	1
Cadmium	0.28	J	1.8	0.079	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Cobalt	16	J	18	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Iron	54000		36	29	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Manganese	500		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 14:01	1
Selenium	ND		3.6	1.2	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	46000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.38		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.39		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	53		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	80000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1200		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	98000		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Beryllium	0.31	J	0.36	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 13:27	1
Cadmium	0.66	J	3.6	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Cobalt	64		36	0.37	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Iron	91000		71	59	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Manganese	1000		1.1	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 13:27	1
Selenium	2.5	J	7.1	2.4	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7

Date Collected: 05/14/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 67.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		59	9.5	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Beryllium	ND		1.5	0.46	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Cadmium	ND		1.5	0.095	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Cobalt	0.47	J	15	0.27	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Iron	ND		30	17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Manganese	11		4.5	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Selenium	ND		3.0	1.0	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14	J *	45	7.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Beryllium	ND	*	1.1	0.071	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Cadmium	ND		1.1	0.049	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Cobalt	ND		11	0.28	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Iron	ND	*	22	13	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Manganese	2.7	J	3.3	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Selenium	ND		2.2	0.76	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	370		15	3.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Beryllium	0.35	J	0.37	0.022	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Cadmium	0.029	J B *	0.37	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Cobalt	17		3.7	0.067	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Iron	1100		7.4	4.3	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Manganese	680	B	1.1	0.040	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Selenium	0.39	J	0.74	0.25	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2300		15	2.4	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Beryllium	1.6		0.37	0.024	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Cadmium	ND		0.37	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Cobalt	4.7		3.7	0.079	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Iron	17000		7.4	4.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Manganese	400		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Selenium	1.9	B *	0.74	0.70	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	640	**1	220	35	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Beryllium	ND	*	5.6	0.47	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Cadmium	ND		5.6	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Cobalt	ND	*	56	0.89	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Iron	ND	**1	110	65	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Manganese	9.8	J *	17	2.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Selenium	4.4	J	11	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		15	2.4	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7

Date Collected: 05/14/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 67.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.0		0.37	0.018	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Cadmium	ND	L	0.37	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Cobalt	4.4	J	7.4	0.14	mg/Kg	☼	06/12/20 08:00	06/19/20 17:10	2
Iron	27000		7.4	4.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Manganese	190		1.1	0.37	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Selenium	0.66	J	0.74	0.25	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		150	24	mg/Kg	☼	06/15/20 08:00	06/22/20 15:30	10
Beryllium	0.96		0.37	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Cadmium	0.91		0.37	0.016	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Cobalt	7.5	J	37	0.39	mg/Kg	☼	06/15/20 08:00	06/22/20 15:30	10
Iron	36000		7.4	6.1	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Manganese	280		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Selenium	1.0		0.74	0.25	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	53000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	4.0		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.94		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	34		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	80000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1600		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	8.3		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120000		150	24	mg/Kg	☼	05/29/20 08:00	06/23/20 14:56	10
Beryllium	3.6		0.37	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 13:33	1
Cadmium	1.9		0.74	0.033	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Cobalt	46		37	0.39	mg/Kg	☼	05/29/20 08:00	06/23/20 14:56	10
Iron	71000		15	12	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Manganese	1700		2.2	0.33	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Selenium	1.4	J	1.5	0.51	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8

Date Collected: 05/14/20 14:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 76.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		52	8.3	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Beryllium	ND		1.3	0.40	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Cadmium	ND		1.3	0.083	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Cobalt	ND		13	0.23	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Iron	ND		26	15	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Manganese	7.1		3.9	0.16	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Selenium	ND		2.6	0.89	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17	J *	39	6.3	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Beryllium	ND	*	0.98	0.063	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Cadmium	ND		0.98	0.043	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Cobalt	ND		9.8	0.25	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Iron	ND	*	20	11	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Manganese	1.7	J	2.9	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Selenium	ND		2.0	0.66	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	260		13	2.7	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Beryllium	0.21	J	0.33	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Cadmium	0.025	J B *	0.33	0.014	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Cobalt	3.3		3.3	0.059	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Iron	460		6.5	3.8	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Manganese	170	B	0.98	0.035	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Selenium	0.30	J	0.65	0.22	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2200		13	2.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Beryllium	1.1		0.33	0.021	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Cadmium	ND		0.33	0.014	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Cobalt	2.6	J	3.3	0.069	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Iron	7100		6.5	3.8	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Manganese	120		0.98	0.17	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Selenium	1.3	B *	0.65	0.61	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	530	**1	200	31	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Beryllium	ND	*	4.9	0.41	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Cadmium	ND		4.9	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Cobalt	ND	*	49	0.78	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Iron	ND	**1	98	57	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Manganese	ND	*	15	2.4	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Selenium	ND		9.8	3.4	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8

Date Collected: 05/14/20 14:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 76.8

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.53		0.33	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Cadmium	ND		0.33	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Cobalt	3.0	J	3.3	0.060	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Iron	9400		6.5	3.8	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Manganese	95		0.98	0.33	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Selenium	ND		0.65	0.22	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	47000		130	21	mg/Kg	☼	06/15/20 08:00	06/22/20 15:50	10
Beryllium	1.4		0.33	0.0098	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Cadmium	0.14	J	0.33	0.014	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Cobalt	3.5		3.3	0.034	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Iron	14000		6.5	5.3	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Manganese	310		0.98	0.14	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Selenium	ND		0.65	0.22	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	64000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	3.2		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.17	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	12		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	31000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	710		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	1.6		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	86000		130	21	mg/Kg	☼	05/29/20 08:00	06/23/20 15:17	10
Beryllium	2.7		0.33	0.0098	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Cadmium	0.55		0.33	0.014	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Cobalt	12		6.5	0.068	mg/Kg	☼	05/29/20 08:00	06/23/20 16:58	2
Iron	24000		6.5	5.3	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Manganese	580		0.98	0.14	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Selenium	ND		0.65	0.22	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Lab Sample ID: 140-19131-9

Date Collected: 05/15/20 09:00

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 87.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		46	7.3	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Beryllium	ND		1.1	0.35	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Cadmium	0.11	J	1.1	0.073	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Cobalt	1.6	J	11	0.21	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Iron	ND		23	13	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Manganese	160		3.4	0.14	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Selenium	ND		2.3	0.78	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	29	J *	34	5.5	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Beryllium	ND	*	0.86	0.055	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Cadmium	0.084	J	0.86	0.038	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Cobalt	1.1	J	8.6	0.22	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Iron	27	*	17	10	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Manganese	36		2.6	0.96	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Selenium	ND		1.7	0.58	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	260		11	2.4	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Beryllium	0.20	J	0.29	0.017	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Cadmium	0.10	J B *	0.29	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Cobalt	2.6	J	2.9	0.052	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Iron	1500		5.7	3.3	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Manganese	67	B	0.86	0.031	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Selenium	0.23	J	0.57	0.19	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		11	1.8	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Beryllium	0.32		0.29	0.018	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Cadmium	0.36		0.29	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Cobalt	1.5	J	2.9	0.061	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Iron	5300		5.7	3.3	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Manganese	52		0.86	0.15	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Selenium	1.1	B *	0.57	0.54	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	**1	170	27	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Beryllium	ND	*	4.3	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Cadmium	ND		4.3	0.18	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Cobalt	ND	*	43	0.69	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Iron	ND	**1	86	50	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Manganese	ND	*	13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Selenium	ND		8.6	3.0	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		11	1.8	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Lab Sample ID: 140-19131-9

Date Collected: 05/15/20 09:00

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 87.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.23	J	0.29	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Cadmium	ND		0.29	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Cobalt	4.5	J	14	0.26	mg/Kg	☼	06/12/20 08:00	06/19/20 17:15	5
Iron	16000		5.7	3.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Manganese	370		0.86	0.29	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Selenium	0.52	J	0.57	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48000		110	18	mg/Kg	☼	06/15/20 08:00	06/22/20 15:55	10
Beryllium	1.6		0.29	0.0086	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Cadmium	0.047	J	0.29	0.013	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Cobalt	0.31	J	2.9	0.030	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Iron	2700		5.7	4.7	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Manganese	63		0.86	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Selenium	ND		0.57	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	2.3		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.70		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	12		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	25000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	750		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	1.8		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	78000		110	18	mg/Kg	☼	05/29/20 08:00	06/23/20 15:22	10
Beryllium	1.9		0.29	0.0086	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Cadmium	0.72		0.29	0.013	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Cobalt	11	J	14	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 17:03	5
Iron	18000		5.7	4.7	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Manganese	540		0.86	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Selenium	ND		0.57	0.19	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Beryllium	ND		1.0	0.31	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Cadmium	ND		1.0	0.064	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Cobalt	ND		10	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Iron	ND		20	12	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Manganese	0.70	J	3.0	0.12	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Selenium	ND		2.0	0.68	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14	J *	30	4.8	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Beryllium	ND	*	0.75	0.048	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Cadmium	ND		0.75	0.033	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Cobalt	ND		7.5	0.19	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Iron	58	*	15	8.7	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Manganese	5.0		2.3	0.84	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Selenium	ND		1.5	0.51	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	110		10	2.1	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Beryllium	ND		0.25	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Cadmium	0.028	J B *	0.25	0.011	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Cobalt	ND		2.5	0.045	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Iron	300		5.0	2.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Manganese	8.1	B	0.75	0.027	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Selenium	0.18	J	0.50	0.17	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	900		10	1.6	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Beryllium	ND		0.25	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Cadmium	ND		0.25	0.011	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Cobalt	0.30	J	2.5	0.053	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Iron	2100		5.0	2.9	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Manganese	60		0.75	0.13	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Selenium	0.70	B *	0.50	0.47	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	64	J * *1	150	24	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Beryllium	ND	*	3.8	0.32	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Cadmium	ND		3.8	0.16	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Cobalt	ND	*	38	0.60	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Iron	ND	* *1	75	44	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Manganese	3.0	J *	11	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Selenium	ND		7.5	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20000		10	1.6	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.25	0.012	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1
Cadmium	ND		1.3	0.055	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Cobalt	8.9	J	13	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Iron	39000		25	15	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Manganese	930		0.75	0.25	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1
Selenium	1.3	J	2.5	0.85	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32000		100	16	mg/Kg	☼	06/15/20 08:00	06/22/20 16:00	10
Beryllium	0.94		0.25	0.0075	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Cadmium	0.12	J	0.25	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Cobalt	1.2	J	13	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 16:57	5
Iron	6900		5.0	4.1	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Manganese	220		0.75	0.11	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Selenium	ND		0.50	0.17	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.94		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.15	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	10		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	49000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1200		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.2		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	70000		100	16	mg/Kg	☼	05/29/20 08:00	06/23/20 15:27	10
Beryllium	0.73		0.50	0.015	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Cadmium	1.4		0.50	0.022	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Cobalt	12	J	25	0.26	mg/Kg	☼	05/29/20 08:00	06/23/20 15:27	10
Iron	43000		10	8.2	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Manganese	1300		1.5	0.22	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Selenium	0.50	J	1.0	0.34	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11

Date Collected: 05/16/20 16:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 73.6

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	31	J	54	8.7	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Beryllium	ND		1.4	0.42	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Cadmium	ND		1.4	0.087	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Cobalt	0.43	J	14	0.24	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Iron	ND		27	16	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Manganese	5.5		4.1	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Selenium	ND		2.7	0.92	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17	J *	41	6.5	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Beryllium	ND	*	1.0	0.065	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Cadmium	ND		1.0	0.045	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Cobalt	ND		10	0.26	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Iron	ND	*	20	12	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Manganese	ND		3.1	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Selenium	ND		2.0	0.69	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	190		14	2.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Beryllium	0.13	J	0.34	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Cadmium	0.041	J B *	0.34	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Cobalt	17		3.4	0.061	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Iron	640		6.8	3.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Manganese	480	B	1.0	0.037	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Selenium	0.30	J	0.68	0.23	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2100		14	2.2	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Beryllium	0.57		0.34	0.022	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Cadmium	ND		0.34	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Cobalt	3.5		3.4	0.072	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Iron	6200		6.8	3.9	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Manganese	200		1.0	0.18	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Selenium	1.4	B *	0.68	0.64	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	360	**1	200	32	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Beryllium	ND	*	5.1	0.43	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Cadmium	ND		5.1	0.22	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Cobalt	ND	*	51	0.82	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Iron	ND	**1	100	60	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Manganese	ND	*	15	2.5	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Selenium	ND		10	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		14	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11

Date Collected: 05/16/20 16:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 73.6

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.39		0.34	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Cadmium	ND		0.34	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Cobalt	5.1		3.4	0.063	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Iron	14000		6.8	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Manganese	210		1.0	0.34	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Selenium	0.39	J	0.68	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	43000		140	22	mg/Kg	☼	06/15/20 08:00	06/22/20 16:06	10
Beryllium	0.51		0.34	0.010	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Cadmium	0.12	J	0.34	0.015	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Cobalt	0.91	J	3.4	0.035	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Iron	8500		6.8	5.6	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Manganese	48		1.0	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Selenium	ND		0.68	0.23	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	58000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	1.6		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.16	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	26		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	29000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	940		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.1		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100000		140	22	mg/Kg	☼	05/29/20 08:00	06/23/20 15:32	10
Beryllium	2.0		0.34	0.010	mg/Kg	☼	05/29/20 08:00	06/23/20 13:55	1
Cadmium	0.44	J	0.68	0.030	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2
Cobalt	41		34	0.35	mg/Kg	☼	05/29/20 08:00	06/23/20 15:32	10
Iron	36000		14	11	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2
Manganese	1200		1.0	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 13:55	1
Selenium	0.62	J	1.4	0.46	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12

Date Collected: 05/16/20 16:25

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		49	7.8	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Beryllium	ND		1.2	0.38	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Cadmium	ND		1.2	0.078	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Cobalt	ND		12	0.22	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Manganese	0.89	J	3.7	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Selenium	ND		2.4	0.83	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.8	J *	37	5.9	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Beryllium	0.14	J *	0.91	0.059	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Cadmium	ND		0.91	0.040	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Cobalt	ND		9.1	0.23	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Iron	ND	*	18	11	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Selenium	0.70	J	1.8	0.62	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		12	2.6	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Beryllium	0.23	J	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Cadmium	0.060	J B *	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Cobalt	1.0	J	3.0	0.055	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Iron	70		6.1	3.5	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Manganese	74	B	0.91	0.033	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Selenium	0.25	J	0.61	0.21	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2000		12	2.0	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Beryllium	0.42		0.30	0.020	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Cadmium	0.035	J	0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Cobalt	0.63	J	3.0	0.065	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Iron	1800		6.1	3.5	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Manganese	56		0.91	0.16	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Selenium	0.91	B *	0.61	0.57	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	240	**1	180	29	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Beryllium	ND	*	4.6	0.38	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Cadmium	ND		4.6	0.20	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Cobalt	ND	*	46	0.73	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Iron	ND	**1	91	54	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Manganese	ND	*	14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Selenium	ND		9.1	3.2	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		12	2.0	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1

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Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12

Date Collected: 05/16/20 16:25

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.70		0.30	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Cobalt	6.9		6.1	0.11	mg/Kg	☼	06/12/20 08:00	06/19/20 17:26	2
Iron	20000		6.1	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Manganese	290		0.91	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Selenium	0.48	J	0.61	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48000		120	20	mg/Kg	☼	06/15/20 08:00	06/22/20 16:11	10
Beryllium	0.42		0.30	0.0091	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Cadmium	0.23	J	0.30	0.013	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Cobalt	0.27	J	15	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 17:02	5
Iron	5000		6.1	5.0	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Manganese	55		0.91	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	68000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	1.9		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.33		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	8.8		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	27000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	480		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80000		120	20	mg/Kg	☼	05/29/20 08:00	06/23/20 15:37	10
Beryllium	1.7		0.30	0.0091	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Cadmium	0.67		0.30	0.013	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Cobalt	9.6	J	15	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 17:19	5
Iron	24000		6.1	5.0	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Manganese	460		0.91	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Selenium	ND		0.61	0.21	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Prep: 3010A

SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.077	mg/Kg
Cadmium	0.25	0.016	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.031	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Prep: 3010A

SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.28	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Prep: 3010A

SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Beryllium	0.25	0.015	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.027	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Prep: 3010A

SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.13	mg/Kg
Selenium	0.50	0.47	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Beryllium	0.75	0.063	mg/Kg

Eurofins TestAmerica, Knoxville

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Cadmium	0.75	0.032	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Manganese	2.3	0.37	mg/Kg
Selenium	1.5	0.52	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.012	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.25	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.052	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-39918/15-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Beryllium	ND		0.25	0.0075	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Cadmium	ND		0.25	0.011	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Cobalt	ND		2.5	0.026	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Iron	ND		5.0	4.1	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Manganese	ND		0.75	0.11	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Selenium	ND		0.50	0.17	mg/Kg		05/29/20 08:00	06/23/20 12:12	1

Lab Sample ID: LCS 140-39918/16-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	103		mg/Kg		103	75 - 125
Beryllium	2.50	2.51		mg/Kg		100	75 - 125
Cadmium	2.50	2.63		mg/Kg		105	75 - 125
Cobalt	5.00	5.37		mg/Kg		107	75 - 125
Iron	50.0	52.3		mg/Kg		105	75 - 125
Manganese	5.00	5.34		mg/Kg		107	75 - 125
Selenium	7.50	7.60		mg/Kg		101	75 - 125

Lab Sample ID: LCSD 140-39918/17-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	102		mg/Kg		102	75 - 125	1	30
Beryllium	2.50	2.48		mg/Kg		99	75 - 125	1	30
Cadmium	2.50	2.62		mg/Kg		105	75 - 125	1	30
Cobalt	5.00	5.33		mg/Kg		107	75 - 125	1	30
Iron	50.0	51.3		mg/Kg		103	75 - 125	2	30
Manganese	5.00	5.29		mg/Kg		106	75 - 125	1	30
Selenium	7.50	7.53		mg/Kg		100	75 - 125	1	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-40011/15-B ^4
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 40023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Beryllium	ND		1.0	0.31	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Cadmium	ND		1.0	0.064	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Cobalt	ND		10	0.18	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Iron	ND		20	12	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Manganese	ND		3.0	0.12	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Selenium	ND		2.0	0.68	mg/Kg		06/02/20 08:00	06/16/20 11:55	4

Eurofins TestAmerica, Knoxville

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-40011/16-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 40023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	100		mg/Kg		100	75 - 125
Beryllium	2.50	2.49		mg/Kg		100	75 - 125
Cadmium	2.50	2.42		mg/Kg		97	75 - 125
Cobalt	5.00	4.76	J	mg/Kg		95	75 - 125
Iron	50.0	49.3		mg/Kg		99	75 - 125
Manganese	5.00	4.92		mg/Kg		98	75 - 125
Selenium	7.50	7.25		mg/Kg		97	75 - 125

Lab Sample ID: LCSD 140-40011/17-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 40023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	102		mg/Kg		102	75 - 125	2	30
Beryllium	2.50	2.63		mg/Kg		105	75 - 125	6	30
Cadmium	2.50	2.55		mg/Kg		102	75 - 125	5	30
Cobalt	5.00	5.03	J	mg/Kg		101	75 - 125	5	30
Iron	50.0	51.3		mg/Kg		103	75 - 125	4	30
Manganese	5.00	5.18		mg/Kg		104	75 - 125	5	30
Selenium	7.50	7.87		mg/Kg		105	75 - 125	8	30

Lab Sample ID: MB 140-40024/15-B ^3
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 40062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Beryllium	ND		0.75	0.048	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Cadmium	ND		0.75	0.033	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Cobalt	ND		7.5	0.19	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Iron	ND		15	8.7	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Manganese	ND		2.3	0.84	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Selenium	ND		1.5	0.51	mg/Kg		06/03/20 08:00	06/16/20 13:48	3

Lab Sample ID: LCS 140-40024/16-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 40062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	ND	*	mg/Kg		-1	75 - 125
Beryllium	2.50	1.28	J *	mg/Kg		51	75 - 125
Cadmium	2.50	2.35		mg/Kg		94	75 - 125
Cobalt	5.00	4.53	J	mg/Kg		91	75 - 125
Iron	50.0	ND	*	mg/Kg		5	75 - 125
Manganese	5.00	4.69		mg/Kg		94	75 - 125
Selenium	7.50	6.68		mg/Kg		89	75 - 125

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-40024/17-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 40062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	ND	*	mg/Kg		-1	75 - 125	19	30	
Beryllium	2.50	1.33	*	mg/Kg		53	75 - 125	4	30	
Cadmium	2.50	2.43		mg/Kg		97	75 - 125	3	30	
Cobalt	5.00	4.67	J	mg/Kg		93	75 - 125	3	30	
Iron	50.0	ND	*	mg/Kg		7	75 - 125	25	30	
Manganese	5.00	4.85		mg/Kg		97	75 - 125	3	30	
Selenium	7.50	6.51		mg/Kg		87	75 - 125	3	30	

Lab Sample ID: MB 140-40065/15-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 40096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Beryllium	ND		0.25	0.015	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	
Cadmium	0.0820	J	0.25	0.011	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	
Cobalt	ND		2.5	0.045	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	
Iron	ND		5.0	2.9	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	
Manganese	0.0490	J	0.75	0.027	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	
Selenium	ND		0.50	0.17	mg/Kg		06/08/20 08:00	06/18/20 11:44	1	

Lab Sample ID: LCS 140-40065/16-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 40096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	91.6		mg/Kg		92	75 - 125			
Beryllium	2.50	2.52		mg/Kg		101	75 - 125			
Cadmium	2.50	1.31	*	mg/Kg		52	75 - 125			
Cobalt	5.00	4.55		mg/Kg		91	75 - 125			
Iron	50.0	49.4		mg/Kg		99	75 - 125			
Manganese	5.00	4.74		mg/Kg		95	75 - 125			
Selenium	7.50	7.72		mg/Kg		103	75 - 125			

Lab Sample ID: LCSD 140-40065/17-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 40096

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	95.6		mg/Kg		96	75 - 125	4	30	
Beryllium	2.50	2.60		mg/Kg		104	75 - 125	3	30	
Cadmium	2.50	1.37	*	mg/Kg		55	75 - 125	4	30	
Cobalt	5.00	4.74		mg/Kg		95	75 - 125	4	30	
Iron	50.0	51.1		mg/Kg		102	75 - 125	3	30	
Manganese	5.00	4.91		mg/Kg		98	75 - 125	3	30	
Selenium	7.50	8.04		mg/Kg		107	75 - 125	4	30	

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-40100/15-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 40214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Beryllium	ND		0.25	0.016	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Cadmium	ND		0.25	0.011	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Cobalt	ND		2.5	0.053	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Iron	ND		5.0	2.9	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Manganese	ND		0.75	0.13	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Selenium	0.953		0.50	0.47	mg/Kg		06/10/20 08:00	06/18/20 13:39	1

Lab Sample ID: LCS 140-40100/16-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 40214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.1		mg/Kg		99	75 - 125
Beryllium	2.50	2.62		mg/Kg		105	75 - 125
Cadmium	2.50	2.70		mg/Kg		108	75 - 125
Cobalt	5.00	5.26		mg/Kg		105	75 - 125
Iron	50.0	50.9		mg/Kg		102	75 - 125
Manganese	5.00	5.14		mg/Kg		103	75 - 125
Selenium	7.50	0.825	*	mg/Kg		11	75 - 125

Lab Sample ID: LCSD 140-40100/17-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 40214

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	99.2		mg/Kg		99	75 - 125	0	30
Beryllium	2.50	2.63		mg/Kg		105	75 - 125	1	30
Cadmium	2.50	2.72		mg/Kg		109	75 - 125	1	30
Cobalt	5.00	5.26		mg/Kg		105	75 - 125	0	30
Iron	50.0	50.8		mg/Kg		102	75 - 125	0	30
Manganese	5.00	5.20		mg/Kg		104	75 - 125	1	30
Selenium	7.50	0.620	*	mg/Kg		8	75 - 125	28	30

Lab Sample ID: MB 140-40215/15-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 40276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		150	24	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Beryllium	ND		3.8	0.32	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Cadmium	ND		3.8	0.16	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Cobalt	ND		38	0.60	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Iron	ND		75	44	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Manganese	ND		11	1.9	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Selenium	ND		7.5	2.6	mg/Kg		06/12/20 08:00	06/19/20 11:16	5

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-40215/16-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 40276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	300	ND	*	mg/Kg		6	75 - 125
Beryllium	7.50	3.83	*	mg/Kg		51	75 - 125
Cadmium	7.50	7.94		mg/Kg		106	75 - 125
Cobalt	15.0	1.41	J *	mg/Kg		9	75 - 125
Iron	150	ND	*	mg/Kg		3	75 - 125
Manganese	15.0	3.49	J *	mg/Kg		23	75 - 125
Selenium	22.5	23.4		mg/Kg		104	75 - 125

Lab Sample ID: LCSD 140-40215/17-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 40276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	300	ND	**1	mg/Kg		4	75 - 125	32	30
Beryllium	7.50	3.99	*	mg/Kg		53	75 - 125	4	30
Cadmium	7.50	8.24		mg/Kg		110	75 - 125	4	30
Cobalt	15.0	1.58	J *	mg/Kg		11	75 - 125	12	30
Iron	150	ND	**1	mg/Kg		4	75 - 125	34	30
Manganese	15.0	4.36	J *	mg/Kg		29	75 - 125	22	30
Selenium	22.5	24.8		mg/Kg		110	75 - 125	6	30

Lab Sample ID: MB 140-40277/15-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 40277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Beryllium	ND		0.25	0.012	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Cadmium	ND		0.25	0.011	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Cobalt	ND		2.5	0.046	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Iron	ND		5.0	2.9	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Manganese	ND		0.75	0.25	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Selenium	ND		0.50	0.17	mg/Kg		06/12/20 08:00	06/19/20 13:12	1

Lab Sample ID: LCS 140-40277/16-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 40277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	101		mg/Kg		101	75 - 125
Beryllium	2.50	2.63		mg/Kg		105	75 - 125
Cadmium	2.50	2.71		mg/Kg		108	75 - 125
Cobalt	5.00	5.22		mg/Kg		104	75 - 125
Iron	50.0	50.8		mg/Kg		102	75 - 125
Manganese	5.00	5.20		mg/Kg		104	75 - 125
Selenium	7.50	7.90		mg/Kg		105	75 - 125

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-40277/17-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 40277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	100		mg/Kg		100	75 - 125	1	30	
Beryllium	2.50	2.61		mg/Kg		105	75 - 125	1	30	
Cadmium	2.50	2.70		mg/Kg		108	75 - 125	0	30	
Cobalt	5.00	5.20		mg/Kg		104	75 - 125	0	30	
Iron	50.0	50.5		mg/Kg		101	75 - 125	1	30	
Manganese	5.00	5.16		mg/Kg		103	75 - 125	1	30	
Selenium	7.50	7.92		mg/Kg		106	75 - 125	0	30	

Lab Sample ID: MB 140-40294/15-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 40294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Beryllium	ND		0.25	0.0075	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	
Cadmium	ND		0.25	0.011	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	
Cobalt	ND		2.5	0.026	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	
Iron	ND		5.0	4.1	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	
Manganese	ND		0.75	0.11	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	
Selenium	ND		0.50	0.17	mg/Kg		06/15/20 08:00	06/22/20 12:47	1	

Lab Sample ID: LCS 140-40294/16-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 40294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	103		mg/Kg		103	75 - 125			
Beryllium	2.50	2.47		mg/Kg		99	75 - 125			
Cadmium	2.50	2.46		mg/Kg		98	75 - 125			
Cobalt	5.00	5.06		mg/Kg		101	75 - 125			
Iron	50.0	53.3		mg/Kg		107	75 - 125			
Manganese	5.00	5.35		mg/Kg		107	75 - 125			
Selenium	7.50	6.95		mg/Kg		93	75 - 125			

Lab Sample ID: LCSD 140-40294/17-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 40294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aluminum	100	103		mg/Kg		103	75 - 125	0	30	
Beryllium	2.50	2.47		mg/Kg		99	75 - 125	0	30	
Cadmium	2.50	2.45		mg/Kg		98	75 - 125	0	30	
Cobalt	5.00	5.03		mg/Kg		101	75 - 125	1	30	
Iron	50.0	53.3		mg/Kg		107	75 - 125	0	30	
Manganese	5.00	5.35		mg/Kg		107	75 - 125	0	30	
Selenium	7.50	6.96		mg/Kg		93	75 - 125	0	30	

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

Prep Batch: 39918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Total	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	Total	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	Total	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	Total	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	Total	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	Total	
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	Total	
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	Total	
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	Total	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	Total	
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	Total	
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	Total	
MB 140-39918/15-A	Method Blank	Total/NA	Solid	Total	
LCS 140-39918/16-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-39918/17-A	Lab Control Sample Dup	Total/NA	Solid	Total	

SEP Batch: 40011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	Exchangeable	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	Exchangeable	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	Exchangeable	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	Exchangeable	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	Exchangeable	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	Exchangeable	
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	Exchangeable	
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	Exchangeable	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	Exchangeable	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	Exchangeable	
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	Exchangeable	
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	Exchangeable	
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	

Prep Batch: 40023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	3010A	40011
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	3010A	40011
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	3010A	40011
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	3010A	40011
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	3010A	40011
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	3010A	40011
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	3010A	40011
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	3010A	40011
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	3010A	40011
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	3010A	40011
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	3010A	40011
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	3010A	40011
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	3010A	40011
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	3010A	40011
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	40011

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

SEP Batch: 40024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	Carbonate	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	Carbonate	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	Carbonate	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	Carbonate	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	Carbonate	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	Carbonate	
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	Carbonate	
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	Carbonate	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	Carbonate	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	Carbonate	
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	Carbonate	
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	Carbonate	
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	

Prep Batch: 40062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	3010A	40024
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	3010A	40024
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	3010A	40024
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	3010A	40024
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	3010A	40024
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	3010A	40024
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	3010A	40024
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	3010A	40024
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	3010A	40024
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	3010A	40024
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	3010A	40024
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	3010A	40024
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	3010A	40024
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	3010A	40024
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	40024

SEP Batch: 40065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	Non-Crystalline	
MB 140-40065/15-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

Prep Batch: 40096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	3010A	40065
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	3010A	40065
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	3010A	40065
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	3010A	40065
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	3010A	40065
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	3010A	40065
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	3010A	40065
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	3010A	40065
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	3010A	40065
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	3010A	40065
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	3010A	40065
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	3010A	40065
MB 140-40065/15-B	Method Blank	Step 3	Solid	3010A	40065
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	3010A	40065
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	3010A	40065

SEP Batch: 40100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	Metal Hydroxide	
MB 140-40100/15-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	

Prep Batch: 40214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	3010A	40100
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	3010A	40100
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	3010A	40100
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	3010A	40100
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	3010A	40100
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	3010A	40100
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	3010A	40100
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	3010A	40100
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	3010A	40100
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	3010A	40100
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	3010A	40100
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	3010A	40100
MB 140-40100/15-B	Method Blank	Step 4	Solid	3010A	40100
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	3010A	40100
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	3010A	40100

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

SEP Batch: 40215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	Organic-Bound	
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	

Prep Batch: 40276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	3010A	40215
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	3010A	40215
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	3010A	40215
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	3010A	40215
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	3010A	40215
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	3010A	40215
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	3010A	40215
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	3010A	40215
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	3010A	40215
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	3010A	40215
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	3010A	40215
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	3010A	40215
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	3010A	40215
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	3010A	40215
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	40215

SEP Batch: 40277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-8	PZ-52D 24-25 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-11	PZ-53D 30 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	Acid/Sulfide	
MB 140-40277/15-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-40277/16-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-40277/17-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

Prep Batch: 40294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	Residual	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	Residual	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	Residual	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	Residual	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	Residual	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	Residual	
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	Residual	
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	Residual	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	Residual	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	Residual	
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	Residual	
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	Residual	
MB 140-40294/15-A	Method Blank	Step 7	Solid	Residual	
LCS 140-40294/16-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-40294/17-A	Lab Control Sample Dup	Step 7	Solid	Residual	

Analysis Batch: 40383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	6010B SEP	40062
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	6010B SEP	40023
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	6010B SEP	40062
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	40023
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	40062
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	40023
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	40062

QC Association Summary

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals

Analysis Batch: 40441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	6010B SEP	40214
MB 140-40065/15-B	Method Blank	Step 3	Solid	6010B SEP	40096
MB 140-40100/15-B	Method Blank	Step 4	Solid	6010B SEP	40214
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	6010B SEP	40096
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	6010B SEP	40214
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	40096
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	40214

Analysis Batch: 40453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-8	PZ-52D 24-25 FT BGS	Step 6	Solid	6010B SEP	40277

QC Association Summary

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals (Continued)

Analysis Batch: 40453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-11	PZ-53D 30 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	6010B SEP	40277
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	6010B SEP	40276
MB 140-40277/15-A	Method Blank	Step 6	Solid	6010B SEP	40277
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	40276
LCS 140-40277/16-A	Lab Control Sample	Step 6	Solid	6010B SEP	40277
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	40276
LCSD 140-40277/17-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	40277

Analysis Batch: 40487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294

QC Association Summary

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals (Continued)

Analysis Batch: 40487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294
MB 140-40294/15-A	Method Blank	Step 7	Solid	6010B SEP	40294
LCS 140-40294/16-A	Lab Control Sample	Step 7	Solid	6010B SEP	40294
LCSD 140-40294/17-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	40294

Analysis Batch: 40512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	6010B	39918
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	6010B	39918
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	6010B	39918
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	6010B	39918
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
MB 140-39918/15-A	Method Blank	Total/NA	Solid	6010B	39918
LCS 140-39918/16-A	Lab Control Sample	Total/NA	Solid	6010B	39918
LCSD 140-39918/17-A	Lab Control Sample Dup	Total/NA	Solid	6010B	39918

Analysis Batch: 40572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Metals (Continued)

Analysis Batch: 40572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-5	BRGWA-6S(2) 42 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-7	PZ-52D 18 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-8	PZ-52D 24-25 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-9	BRGWC-50(2) 59 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-11	PZ-53D 30 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-12	PZ-53D 36 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	

General Chemistry

Analysis Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Moisture	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	Moisture	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	Moisture	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	Moisture	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	Moisture	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	Moisture	
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	Moisture	
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	Moisture	
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	Moisture	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	Moisture	
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	Moisture	
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	Moisture	
140-19131-1 DU	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
		Instrument ID: NOEQUIP								

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:43	KNC	TAL KNX
		Instrument ID: DUO								
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:27	KNC	TAL KNX
		Instrument ID: DUO								
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:04	KNC	TAL KNX
		Instrument ID: DUO								
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		20			40512	06/23/20 17:24	KNC	TAL KNX
		Instrument ID: DUO								
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:21	KNC	TAL KNX
		Instrument ID: DUO								
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:15	KNC	TAL KNX
		Instrument ID: DUO								
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:10	KNC	TAL KNX
		Instrument ID: DUO								
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:04	KNC	TAL KNX
		Instrument ID: DUO								
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:43	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:38	KNC	TAL KNX
		Instrument ID: DUO								

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 16:54	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:18	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:00	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:27	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:49	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:32	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		20			40512	06/23/20 17:29	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:26	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:20	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:15	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:10	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:48	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:43	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:23	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:05	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:32	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:54	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:37	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:15	KNC	TAL KNX
		Instrument ID: DUO								
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:31	KNC	TAL KNX
		Instrument ID: DUO								
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:25	KNC	TAL KNX
		Instrument ID: DUO								
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:20	KNC	TAL KNX
		Instrument ID: DUO								
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:15	KNC	TAL KNX
		Instrument ID: DUO								
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:53	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:48	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:29	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:10	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:37	KNC	TAL KNX
		Instrument ID: DUO								

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Lab Sample ID: 140-19131-4

Date Collected: 05/14/20 07:50

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
		Instrument ID: NOEQUIP								

Euofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Lab Sample ID: 140-19131-4

Date Collected: 05/14/20 07:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:16	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:41	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:21	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:36	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:31	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:26	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:20	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:58	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:53	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:50	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:15	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:42	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
		Instrument ID: NOEQUIP								

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:46	KNC	TAL KNX
		Instrument ID: DUO								
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:26	KNC	TAL KNX
		Instrument ID: DUO								
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:57	KNC	TAL KNX
		Instrument ID: DUO								
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:52	KNC	TAL KNX
		Instrument ID: DUO								
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:46	KNC	TAL KNX
		Instrument ID: DUO								
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:40	KNC	TAL KNX
		Instrument ID: DUO								
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:19	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:12	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:56	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:20	KNC	TAL KNX
		Instrument ID: DUO								

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:47	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6

Date Collected: 05/14/20 12:15

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6

Date Collected: 05/14/20 12:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:27	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:51	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:02	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:57	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:51	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:45	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:25	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6

Date Collected: 05/14/20 12:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:17	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:01	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:25	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:52	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7

Date Collected: 05/14/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7

Date Collected: 05/14/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:33	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:56	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:37	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:07	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:02	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7

Date Collected: 05/14/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:57	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:50	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:30	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:22	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 17:10	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:07	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:30	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8

Date Collected: 05/14/20 14:50

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8

Date Collected: 05/14/20 14:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:38	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:17	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8

Date Collected: 05/14/20 14:50

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:58	KNC	TAL KNX
		Instrument ID: DUO								
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:12	KNC	TAL KNX
		Instrument ID: DUO								
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:08	KNC	TAL KNX
		Instrument ID: DUO								
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:02	KNC	TAL KNX
		Instrument ID: DUO								
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:55	KNC	TAL KNX
		Instrument ID: DUO								
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:35	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:27	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:12	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:50	KNC	TAL KNX
		Instrument ID: DUO								

Client Sample ID: BRGWC-50(2) 59 FT BGS

Lab Sample ID: 140-19131-9

Date Collected: 05/15/20 09:00

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
		Instrument ID: NOEQUIP								

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Lab Sample ID: 140-19131-9

Date Collected: 05/15/20 09:00

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:44	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:22	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			40512	06/23/20 17:03	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:18	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:13	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:07	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:00	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:41	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:32	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		5			40453	06/19/20 17:15	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:18	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:55	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
		Instrument ID: NOEQUIP								

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:27	KNC	TAL KNX
		Instrument ID: DUO								
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 17:08	KNC	TAL KNX
		Instrument ID: DUO								
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:23	KNC	TAL KNX
		Instrument ID: DUO								
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:18	KNC	TAL KNX
		Instrument ID: DUO								
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:12	KNC	TAL KNX
		Instrument ID: DUO								
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:05	KNC	TAL KNX
		Instrument ID: DUO								
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:46	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:38	KNC	TAL KNX
		Instrument ID: DUO								
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		5			40453	06/19/20 17:21	KNC	TAL KNX
		Instrument ID: DUO								
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:23	KNC	TAL KNX
		Instrument ID: DUO								

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:00	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:57	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11

Date Collected: 05/16/20 16:15

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11

Date Collected: 05/16/20 16:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:55	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:32	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 17:14	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:28	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:24	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:18	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11

Date Collected: 05/16/20 16:15

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:10	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:51	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:43	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:29	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:06	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12

Date Collected: 05/16/20 16:25

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12

Date Collected: 05/16/20 16:25

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 14:01	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:37	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			40512	06/23/20 17:19	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:33	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12

Date Collected: 05/16/20 16:25

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:29	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:23	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:15	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:57	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:49	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 17:26	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:34	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:11	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 17:02	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-39918/15-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:12	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40011/15-B ^4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 11:55	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40024/15-B ^3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 13:48	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40065/15-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:44	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40100/15-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:39	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40215/15-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:16	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40277/15-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:12	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-40294/15-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:47	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-39918/16-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:17	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40011/16-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			40383	06/16/20 12:00	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40024/16-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			40383	06/16/20 13:54	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40065/16-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:49	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40100/16-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:44	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40215/16-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:21	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40277/16-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:17	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-40294/16-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:52	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-39918/17-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:22	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40011/17-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			40383	06/16/20 12:05	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40024/17-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			40383	06/16/20 13:59	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40065/17-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:54	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40100/17-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:49	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40215/17-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:27	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40277/17-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:22	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-40294/17-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:57	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1 DU

Date Collected: 05/13/20 14:30

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
Instrument ID: NOEQUIP										

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Laboratory: Eurofins TestAmerica, Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TNI0189	01-02-21

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
6010B	Total	Solid	Aluminum
6010B	Total	Solid	Beryllium
6010B	Total	Solid	Cadmium
6010B	Total	Solid	Cobalt
6010B	Total	Solid	Iron
6010B	Total	Solid	Manganese
6010B	Total	Solid	Selenium
6010B SEP		Solid	Aluminum
6010B SEP		Solid	Beryllium
6010B SEP		Solid	Cadmium
6010B SEP		Solid	Cobalt
6010B SEP		Solid	Iron
6010B SEP		Solid	Manganese
6010B SEP		Solid	Selenium
6010B SEP	3010A	Solid	Aluminum
6010B SEP	3010A	Solid	Beryllium
6010B SEP	3010A	Solid	Cadmium
6010B SEP	3010A	Solid	Cobalt
6010B SEP	3010A	Solid	Iron
6010B SEP	3010A	Solid	Manganese
6010B SEP	3010A	Solid	Selenium
6010B SEP	Acid/Sulfide	Solid	Aluminum
6010B SEP	Acid/Sulfide	Solid	Beryllium
6010B SEP	Acid/Sulfide	Solid	Cadmium
6010B SEP	Acid/Sulfide	Solid	Cobalt
6010B SEP	Acid/Sulfide	Solid	Iron
6010B SEP	Acid/Sulfide	Solid	Manganese
6010B SEP	Acid/Sulfide	Solid	Selenium
6010B SEP	Residual	Solid	Aluminum
6010B SEP	Residual	Solid	Beryllium
6010B SEP	Residual	Solid	Cadmium
6010B SEP	Residual	Solid	Cobalt
6010B SEP	Residual	Solid	Iron
6010B SEP	Residual	Solid	Manganese
6010B SEP	Residual	Solid	Selenium
Moisture		Solid	Percent Moisture

Method Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

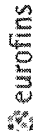
TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Chain of Custody

Eurofins TestAmerica, Knoxville
 5815 Middlebrook Pike
 Knoxville, TN 37921-5947
 phone 865.291.3000 fax 865.584.4315



Environment Testing
 TestAmerica



140-19131 Chain of Custody

Project Manager: Brian Steele Email: bsteele@golder.com Tel/Fax: 470-512-3923		Site Contact: Shannon George Date: _____ Lab Contact: Ryan Henry Carrier: FedEx		COC No: 140-8035-2549.1 Page 1 of 1 TALS Project #: _____	
Client Contact Golder Associates Inc. 5170 Peachtree Road, Building 100, Suite 300 Atlanta, GA 30341 770-496-1893		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____	
Project Name: PLANT BRANCH Site: SCS PO # 160625418/14005864		Filtered Sample (Y/N) _____ Perform Ms / MSD (Y/N) _____ 6010B_SEP - SEP Metals _____		Sample Specific Notes: CUSTOM SEALS INTACT RESEALED AT N.D.S. CT 9.86 bkg S-2020 FAX 865.942.8200 PD	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
BRGWA-2S(2) 39 ft bgs	5/13/2020	14:30	G	S	1 x 4 oz jar
BRGWA-2S(2) 43 ft bgs	5/13/2020	14:40	G	S	1 x 4 oz jar
BRGWA-5S(2) 38 ft bgs	5/14/2020	07:40	G	S	1 x 4 oz jar
BRGWA-5S(2) 32 ft bgs	5/14/2020	07:50	G	S	1 x 4 oz jar
BRGWA-6S(2) 42 ft bgs	5/14/2020	12:05	G	S	1 x 4 oz jar
BRGWA-6S(2) 48 ft bgs	5/14/2020	12:15	G	S	1 x 4 oz jar
PZ-52D 18 ft bgs	5/14/2020	14:40	G	S	1 x 4 oz jar
PZ-52D 24-25 ft bgs	5/14/2020	14:50	G	S	1 x 4 oz jar
BRGWC-50(2) 59 ft bgs	5/15/2020	09:00	G	S	1 x 4 oz jar
BRGWC-50(2) 63-63.5 ft bgs	5/15/2020	09:20	G	S	1 x 4 oz jar
PZ-53D 30 ft bgs	5/16/2020	16:15	G	S	1 x 4 oz jar
PZ-53D 36 ft bgs	5/16/2020	16:25	G	S	1 x 4 oz jar
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: Shannon George		Cooler Temp. (°C): Obs'd: _____ Received by: Jude Waquespack Company: Golder		Therm ID No.: _____ Date/Time: 05/18/20 1800	
Relinquished by: Waquespack		Received by: Fed Ex Company: Fed Ex		Date/Time: 05/19/20 0925	
Relinquished by:		Received in Laboratory by:		Date/Time: 5-20-20 09:45 Company: EVA-101X	



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	10
2. Were ambient air containers received intact?				<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>5448</u> Correction factor: <u>0.1</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input checked="" type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	pH test strip lot number: _____
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	Date: _____
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/			<input type="checkbox"/> Residual Chlorine	Time: _____
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: <u>1400084</u> PM Instructions: _____					



ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-22369-1
Client Project/Site: SCS Site, Plant Branch
Revision: 1

For:
Golder Associates Inc.
5170 Peachtree Road
Building 100, Suite 300
Atlanta, Georgia 30341

Attn: Brian Steele



Authorized for release by:
4/29/2021 9:06:10 AM

Ryan Henry, Project Manager I
(865)291-3000
williamr.henry@eurofinset.com

LINKS

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results through
TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Job ID: 140-22369-1

Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative 140-22369-1 Revised

This report has been revised to add cadmium as requested by the client.

Receipt

The sample was received on 3/20/2021 at 9:40am and arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

C = Concentration from instrument readout, $\mu\text{g/mL}$

V = Final volume of digestate, mL

D = Instrument dilution factor

V1 = Total volume of leachate, mL

V2 = Volume of leachate digested, mL

W = Wet weight of sample, g

S = Percent solids/100

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Job ID: 140-22369-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

Magnesium was not reported for step 1 because the extraction solution for this step (magnesium sulfate) contains high levels of magnesium. Sodium was not reported for steps 2 and 5 since the extraction solutions for these steps contain high levels of sodium. The sum of steps 1 through 7 is much higher than the total result for sodium and magnesium due to the magnesium and sodium introduced by the extraction solutions.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Methods 6010B, 6010B SEP: The serial dilution performed for the following samples associated with batch 140-49029 were outside control limits: (140-22369-A-1-A SD ^10), (140-22369-A-1-A SD ^25) and (140-22369-A-1-Y SD ^5)

Method 6010B: The sample duplicate (DUP) precision for preparation batch 140-48595 and analytical batch 140-49029 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Methods 6010B, 6010B SEP: The following samples were diluted due to the presence of titanium which interferes with Cobalt: PZ-51S-40-45' (140-22369-1), (140-22369-A-1-B DU) and (140-22369-A-1-Z DU). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of Iron which interferes with Selenium: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-B DU). Elevated reporting limits (RLs) are provided.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-B DU). The internal standard was very high for the samples affected. The samples were reanalyzed at 1:1 and 1:5.

Methods 6010B, 6010B SEP: The following samples were diluted due to the nature of the sample matrix: PZ-51S-40-45' (140-22369-1), (140-22369-A-1-B DU) and (140-22369-A-1-Z DU). Elevated reporting limits (RLs) are provided for Aluminum.

Method 6010B SEP: The serial dilution performed for the following sample associated with batch 140-48970 was outside control limits: (140-22369-A-1-W SD ^5)

Method 6010B SEP: The following samples were diluted due to the presence of titanium which interferes with Cobalt: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-X DU). 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

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3

Case Narrative

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Job ID: 140-22369-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Sample Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-22369-1	PZ-51S-40-45'	Solid	03/19/21 09:21	03/20/21 09:40	

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Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		42	6.7	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Beryllium	ND		1.0	0.32	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Cadmium	ND		1.0	0.067	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Cobalt	ND		10	0.19	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Iron	ND		21	12	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Lithium	ND		10	0.62	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Manganese	11		3.1	0.13	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4
Selenium	ND		2.1	0.71	mg/Kg	✳	04/09/21 08:00	04/15/21 11:56	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.6	J	31	5.0	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Beryllium	ND		0.78	0.050	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Cadmium	ND		0.78	0.034	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Cobalt	ND		7.8	0.20	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Iron	ND		16	9.0	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Lithium	ND		7.8	0.47	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Manganese	4.3		2.3	0.87	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3
Selenium	ND		1.6	0.53	mg/Kg	✳	04/12/21 08:00	04/15/21 12:26	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100		10	2.2	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Beryllium	0.055	J	0.26	0.016	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Cadmium	0.015	J B	0.26	0.011	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Cobalt	2.3	J	2.6	0.047	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Iron	210		5.2	3.0	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Lithium	ND		2.6	0.16	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Manganese	85	B	0.78	0.028	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1
Selenium	ND		0.52	0.18	mg/Kg	✳	04/13/21 08:00	04/15/21 13:04	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1700		10	1.7	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Beryllium	0.44		0.26	0.017	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Cadmium	ND		0.26	0.011	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Cobalt	2.5	J	2.6	0.055	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Iron	6400		5.2	3.0	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Lithium	0.70	J	2.6	0.16	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Manganese	120		0.78	0.14	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1
Selenium	0.61		0.52	0.49	mg/Kg	✳	04/14/21 08:00	04/15/21 13:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	260	B	160	24	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5
Beryllium	ND		3.9	0.33	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5
Cadmium	ND		3.9	0.17	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5
Cobalt	ND		39	0.62	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5
Iron	ND		78	46	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5
Lithium	5.0	J B	39	2.3	mg/Kg	✳	04/16/21 08:00	04/19/21 13:44	5

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		12	1.9	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Selenium	ND		7.8	2.7	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		10	1.7	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Beryllium	0.22	J	0.26	0.012	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Cadmium	ND		0.26	0.011	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Cobalt	5.9		5.2	0.096	mg/Kg	☼	04/16/21 08:00	04/19/21 14:40	2
Iron	14000		5.2	3.0	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Li	7.5		2.6	0.16	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Manganese	170		0.78	0.26	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Selenium	0.38	J	0.52	0.18	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600	B	100	17	mg/Kg	☼	04/19/21 08:00	04/20/21 15:11	10
Beryllium	0.44		0.26	0.0078	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Cadmium	ND		0.26	0.011	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Cobalt	6.4	J	13	0.14	mg/Kg	☼	04/19/21 08:00	04/20/21 16:46	5
Iron	18000		5.2	4.3	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Lithium	1.7	J	2.6	0.16	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Manganese	390	B	0.78	0.11	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Selenium	0.67		0.52	0.18	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25000		10	1.6	mg/Kg			04/21/21 13:55	1
Beryllium	1.2		0.25	0.0075	mg/Kg			04/21/21 13:55	1
Cadmium	0.015	J	0.25	0.011	mg/Kg			04/21/21 13:55	1
Cobalt	17		2.5	0.023	mg/Kg			04/21/21 13:55	1
Iron	39000		5.0	4.1	mg/Kg			04/21/21 13:55	1
Lithium	15		2.5	0.15	mg/Kg			04/21/21 13:55	1
Manganese	780		0.75	0.052	mg/Kg			04/21/21 13:55	1
Selenium	1.7		0.50	0.17	mg/Kg			04/21/21 13:55	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	72000		100	17	mg/Kg	☼	04/08/21 08:00	04/20/21 15:35	10
Beryllium	1.2		0.52	0.016	mg/Kg	☼	04/08/21 08:00	04/20/21 17:00	2
Cadmium	ND		1.3	0.057	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Cobalt	18		13	0.14	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Iron	42000		26	21	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Lithium	15		13	0.78	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Manganese	660		1.6	0.23	mg/Kg	☼	04/08/21 08:00	04/20/21 17:00	2
Selenium	1.6	J	2.6	0.88	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Prep: 3010A

SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.077	mg/Kg
Cadmium	0.25	0.016	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.031	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Prep: 3010A

SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.28	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Prep: 3010A

SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Beryllium	0.25	0.015	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.027	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Prep: 3010A

SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.13	mg/Kg
Selenium	0.50	0.47	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

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Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Beryllium	0.75	0.063	mg/Kg
Cadmium	0.75	0.032	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Lithium	7.5	0.44	mg/Kg
Manganese	2.3	0.37	mg/Kg
Selenium	1.5	0.52	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.012	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Li	2.5	0.15	mg/Kg
Manganese	0.75	0.25	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.052	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg

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Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Prep: Total

Analyte	RL	MDL	Units
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

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QC Sample Results

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-48595/3-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Beryllium	ND		0.25	0.0075	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Cadmium	ND		0.25	0.011	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Cobalt	ND		2.5	0.026	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Iron	ND		5.0	4.1	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Lithium	ND		2.5	0.15	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Manganese	ND		0.75	0.11	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Selenium	ND		0.50	0.17	mg/Kg		04/08/21 08:00	04/20/21 14:46	1

Lab Sample ID: LCS 140-48595/4-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.9		mg/Kg		100	80 - 120
Beryllium	2.50	2.51		mg/Kg		101	80 - 120
Cadmium	2.50	2.56		mg/Kg		102	80 - 125
Cobalt	5.00	5.11		mg/Kg		102	80 - 125
Iron	50.0	52.7		mg/Kg		105	80 - 120
Lithium	5.00	4.88		mg/Kg		98	80 - 120
Manganese	5.00	5.15		mg/Kg		103	80 - 120
Selenium	7.50	7.22		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 140-48595/5-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	98.4		mg/Kg		98	80 - 120	1	30
Beryllium	2.50	2.49		mg/Kg		99	80 - 120	1	30
Cadmium	2.50	2.55		mg/Kg		102	80 - 125	0	30
Cobalt	5.00	5.09		mg/Kg		102	80 - 125	0	30
Iron	50.0	51.2		mg/Kg		102	80 - 120	3	30
Lithium	5.00	4.78		mg/Kg		96	80 - 120	2	30
Manganese	5.00	5.09		mg/Kg		102	80 - 120	1	30
Selenium	7.50	7.26		mg/Kg		97	80 - 120	0	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	72000		70700		mg/Kg	✱	2	30

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	1.2		1.18		mg/Kg	☼	2	30
Manganese	660		673		mg/Kg	☼	2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	ND		ND		mg/Kg	☼	NC	30
Cobalt	18		18.1		mg/Kg	☼	2	30
Iron	42000		42500		mg/Kg	☼	0.6	30
Lithium	15		14.9		mg/Kg	☼	0.5	30
Selenium	1.6 J		1.01 J F5		mg/Kg	☼	42	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-48597/3-B ^4
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 48654

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		40	6.4	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Beryllium	ND		1.0	0.31	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Cadmium	ND		1.0	0.064	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Cobalt	ND		10	0.18	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Iron	ND		20	12	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Lithium	ND		10	0.60	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Manganese	ND		3.0	0.12	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Selenium	ND		2.0	0.68	mg/Kg		04/09/21 08:00	04/15/21 11:42	4

Lab Sample ID: LCS 140-48597/4-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 48654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	2.50	2.57		mg/Kg		103	80 - 120
Cadmium	2.50	2.41		mg/Kg		97	80 - 120
Cobalt	5.00	4.91 J		mg/Kg		98	80 - 120
Iron	50.0	52.6		mg/Kg		105	80 - 120
Lithium	5.00	5.27 J		mg/Kg		105	80 - 120
Manganese	5.00	5.13		mg/Kg		103	80 - 120
Selenium	7.50	7.57		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 140-48597/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 48654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-48597/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 48654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	2.50	2.61		mg/Kg		104	80 - 120	1	30
Cadmium	2.50	2.44		mg/Kg		98	80 - 120	1	30
Cobalt	5.00	4.90	J	mg/Kg		98	80 - 120	0	30
Iron	50.0	51.6		mg/Kg		103	80 - 120	2	30
Lithium	5.00	5.15	J	mg/Kg		103	80 - 120	2	30
Manganese	5.00	5.21		mg/Kg		104	80 - 120	2	30
Selenium	7.50	7.71		mg/Kg		103	80 - 120	2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 1
Prep Batch: 48654

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		mg/Kg	✖	NC	30
Beryllium	ND		ND		mg/Kg	✖	NC	30
Cadmium	ND		ND		mg/Kg	✖	NC	30
Cobalt	ND		ND		mg/Kg	✖	NC	30
Iron	ND		ND		mg/Kg	✖	NC	30
Lithium	ND		ND		mg/Kg	✖	NC	30
Manganese	11		11.3		mg/Kg	✖	3	30
Selenium	ND		ND		mg/Kg	✖	NC	30

Lab Sample ID: MB 140-48655/3-B ^3
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 48695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Beryllium	ND		0.75	0.048	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Cadmium	ND		0.75	0.033	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Cobalt	ND		7.5	0.19	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Iron	ND		15	8.7	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Lithium	ND		7.5	0.45	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Manganese	ND		2.3	0.84	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Selenium	ND		1.5	0.51	mg/Kg		04/12/21 08:00	04/15/21 12:11	3

Lab Sample ID: LCS 140-48655/4-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 48695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	ND		mg/Kg		-4	
Beryllium	2.50	1.27	J	mg/Kg		51	40 - 70
Cadmium	2.50	2.27		mg/Kg		91	80 - 120
Cobalt	5.00	4.46	J	mg/Kg		89	80 - 120
Iron	50.0	ND		mg/Kg		2	
Lithium	5.00	4.57	J	mg/Kg		91	80 - 120
Manganese	5.00	4.67		mg/Kg		93	80 - 120
Selenium	7.50	6.78		mg/Kg		90	70 - 120

Eurofins TestAmerica, Knoxville

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-48655/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 48695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	ND		mg/Kg		-4		4	
Beryllium	2.50	1.22	J	mg/Kg		49	40 - 70	4	30
Cadmium	2.50	2.19		mg/Kg		88	80 - 120	4	30
Cobalt	5.00	4.32	J	mg/Kg		86	80 - 120	3	30
Iron	50.0	ND		mg/Kg		4		52	
Lithium	5.00	4.56	J	mg/Kg		91	80 - 120	0	30
Manganese	5.00	4.54		mg/Kg		91	80 - 120	3	30
Selenium	7.50	5.46		mg/Kg		73	70 - 120	22	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 2
Prep Batch: 48695

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	9.6	J	8.45	J	mg/Kg	☼	12	
Beryllium	ND		ND		mg/Kg	☼	NC	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Cobalt	ND		ND		mg/Kg	☼	NC	30
Iron	ND		ND		mg/Kg	☼	NC	
Lithium	ND		0.541	J	mg/Kg	☼	NC	30
Manganese	4.3		4.41		mg/Kg	☼	2	30
Selenium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 140-48696/3-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 48739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	2.1	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Beryllium	ND		0.25	0.015	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Cadmium	0.0685	J	0.25	0.011	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Cobalt	ND		2.5	0.045	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Iron	ND		5.0	2.9	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Lithium	ND		2.5	0.15	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Manganese	0.112	J	0.75	0.027	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Selenium	ND		0.50	0.17	mg/Kg		04/13/21 08:00	04/15/21 12:50	1

Lab Sample ID: LCS 140-48696/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 48739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	96.2		mg/Kg		96	80 - 120
Beryllium	2.50	2.53		mg/Kg		101	80 - 120
Cadmium	2.50	0.656		mg/Kg		26	10 - 120
Cobalt	5.00	4.82		mg/Kg		96	80 - 120
Iron	50.0	49.8		mg/Kg		100	80 - 120
Lithium	5.00	4.72		mg/Kg		94	80 - 120
Manganese	5.00	5.13		mg/Kg		103	80 - 120

Eurofins TestAmerica, Knoxville

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48696/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 48739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	7.50	7.16		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 140-48696/5-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 48739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	95.4		mg/Kg		95	80 - 120	1	30
Beryllium	2.50	2.52		mg/Kg		101	80 - 120	1	30
Cadmium	2.50	0.649		mg/Kg		26	10 - 120	1	30
Cobalt	5.00	4.78		mg/Kg		96	80 - 120	1	30
Iron	50.0	49.2		mg/Kg		98	80 - 120	1	30
Lithium	5.00	4.69		mg/Kg		94	80 - 120	1	30
Manganese	5.00	4.94		mg/Kg		99	80 - 120	4	30
Selenium	7.50	7.04		mg/Kg		94	80 - 120	2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 3
Prep Batch: 48739

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	100		105		mg/Kg	✱	3	30
Beryllium	0.055	J	0.0541	J	mg/Kg	✱	1	30
Cadmium	0.015	J B	0.0161	J	mg/Kg	✱	7	30
Cobalt	2.3	J	2.31	J	mg/Kg	✱	0.5	30
Iron	210		204		mg/Kg	✱	0.6	30
Lithium	ND		ND		mg/Kg	✱	NC	30
Manganese	85	B	84.5		mg/Kg	✱	0.4	30
Selenium	ND		ND		mg/Kg	✱	NC	30

Lab Sample ID: MB 140-48740/3-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 48783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Beryllium	ND		0.25	0.016	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Cadmium	ND		0.25	0.011	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Cobalt	ND		2.5	0.053	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Iron	ND		5.0	2.9	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Lithium	ND		2.5	0.15	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Manganese	ND		0.75	0.13	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Selenium	ND		0.50	0.47	mg/Kg		04/14/21 08:00	04/15/21 13:29	1

Lab Sample ID: LCS 140-48740/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 48783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	96.3		mg/Kg		96	80 - 120

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48740/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 48783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	2.50	2.59		mg/Kg		103	80 - 120
Cadmium	2.50	2.47		mg/Kg		99	80 - 120
Cobalt	5.00	4.93		mg/Kg		99	80 - 120
Iron	50.0	49.9		mg/Kg		100	80 - 120
Lithium	5.00	4.80		mg/Kg		96	80 - 120
Manganese	5.00	5.02		mg/Kg		100	80 - 120
Selenium	7.50	ND		mg/Kg		4	

Lab Sample ID: LCSD 140-48740/5-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 48783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	97.2		mg/Kg		97	80 - 120	1	30
Beryllium	2.50	2.59		mg/Kg		104	80 - 120	0	30
Cadmium	2.50	2.45		mg/Kg		98	80 - 120	1	30
Cobalt	5.00	4.88		mg/Kg		98	80 - 120	1	30
Iron	50.0	50.0		mg/Kg		100	80 - 120	0	30
Lithium	5.00	4.84		mg/Kg		97	80 - 120	1	30
Manganese	5.00	5.16		mg/Kg		103	80 - 120	3	30
Selenium	7.50	ND		mg/Kg		5		16	

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 4
Prep Batch: 48783

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	1700		1740		mg/Kg	✖	2	30
Beryllium	0.44		0.442		mg/Kg	✖	0.6	30
Cadmium	ND		ND		mg/Kg	✖	NC	30
Cobalt	2.5 J		2.38 J		mg/Kg	✖	6	30
Iron	6400		6410		mg/Kg	✖	0.2	30
Lithium	0.70 J		0.642 J		mg/Kg	✖	9	30
Manganese	120		112		mg/Kg	✖	7	30
Selenium	0.61		ND		mg/Kg	✖	NC	

Lab Sample ID: MB 140-48784/3-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 48867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	33.2 J		150	24	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Beryllium	ND		3.8	0.32	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Cadmium	ND		3.8	0.16	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Cobalt	ND		38	0.60	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Iron	ND		75	44	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Lithium	5.37 J		38	2.2	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Manganese	ND		11	1.9	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Selenium	ND		7.5	2.6	mg/Kg		04/16/21 08:00	04/19/21 13:29	5

Eurofins TestAmerica, Knoxville

QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48784/4-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 48867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	300	48.5	J	mg/Kg		16	
Beryllium	7.50	3.37	J	mg/Kg		45	40 - 70
Cadmium	7.50	7.15		mg/Kg		95	80 - 130
Cobalt	15.0	2.64	J	mg/Kg		18	1 - 60
Iron	150	ND		mg/Kg		1	
Lithium	15.0	18.3	J	mg/Kg		122	80 - 150
Manganese	15.0	2.69	J	mg/Kg		18	1 - 60
Selenium	22.5	21.7		mg/Kg		96	80 - 140

Lab Sample ID: LCSD 140-48784/5-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 48867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	300	30.4	J	mg/Kg		10		46	
Beryllium	7.50	3.35	J	mg/Kg		45	40 - 70	1	30
Cadmium	7.50	7.18		mg/Kg		96	80 - 130	0	30
Cobalt	15.0	2.71	J	mg/Kg		18	1 - 60	3	30
Iron	150	ND		mg/Kg		5		127	
Lithium	15.0	17.9	J	mg/Kg		119	80 - 150	2	30
Manganese	15.0	2.84	J	mg/Kg		19	1 - 60	5	30
Selenium	22.5	21.6		mg/Kg		96	80 - 140	0	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 5
Prep Batch: 48867

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	260	B	238		mg/Kg	✱	8	
Beryllium	ND		ND		mg/Kg	✱	NC	30
Cadmium	ND		ND		mg/Kg	✱	NC	30
Cobalt	ND		ND		mg/Kg	✱	NC	30
Iron	ND		ND		mg/Kg	✱	NC	
Lithium	5.0	J B	5.13	J	mg/Kg	✱	3	30
Manganese	ND		ND		mg/Kg	✱	NC	30
Selenium	ND		ND		mg/Kg	✱	NC	30

Lab Sample ID: MB 140-48875/3-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 48875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Beryllium	ND		0.25	0.012	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Cadmium	ND		0.25	0.011	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Cobalt	ND		2.5	0.046	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Iron	ND		5.0	2.9	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Li	ND		2.5	0.15	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Manganese	ND		0.75	0.25	mg/Kg		04/16/21 08:00	04/19/21 14:09	1

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-48875/3-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 48875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.50	0.17	mg/Kg		04/16/21 08:00	04/19/21 14:09	1

Lab Sample ID: LCS 140-48875/4-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 48875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.7		mg/Kg		100	80 - 120
Beryllium	2.50	2.62		mg/Kg		105	80 - 120
Cadmium	2.50	2.51		mg/Kg		100	80 - 120
Cobalt	5.00	4.93		mg/Kg		99	80 - 120
Iron	50.0	50.1		mg/Kg		100	80 - 120
Li	5.00	4.78		mg/Kg		96	80 - 120
Manganese	5.00	5.07		mg/Kg		101	80 - 120
Selenium	7.50	7.42		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 140-48875/5-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 48875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	97.2		mg/Kg		97	80 - 120	3	30
Beryllium	2.50	2.54		mg/Kg		102	80 - 120	3	30
Cadmium	2.50	2.43		mg/Kg		97	80 - 120	3	30
Cobalt	5.00	4.76		mg/Kg		95	80 - 120	3	30
Iron	50.0	48.6		mg/Kg		97	80 - 120	3	30
Li	5.00	4.60		mg/Kg		92	80 - 120	4	30
Manganese	5.00	4.92		mg/Kg		98	80 - 120	3	30
Selenium	7.50	7.11		mg/Kg		95	80 - 120	4	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 6
Prep Batch: 48875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	15000		14000		mg/Kg	⊛	5	30
Beryllium	0.22	J	0.210	J	mg/Kg	⊛	5	30
Cadmium	ND		ND		mg/Kg	⊛	NC	30
Iron	14000		13900		mg/Kg	⊛	2	30
Li	7.5		7.55		mg/Kg	⊛	1	30
Manganese	170		166		mg/Kg	⊛	3	30
Selenium	0.38	J	0.434	J	mg/Kg	⊛	14	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 6
Prep Batch: 48875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	5.9		5.81		mg/Kg	⊛	1	30

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QC Sample Results

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-48911/3-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 48911

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	1.75	J	10	1.6	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Beryllium	ND		0.25	0.0075	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Cadmium	ND		0.25	0.011	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Cobalt	ND		2.5	0.026	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Iron	ND		5.0	4.1	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Lithium	ND		2.5	0.15	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Manganese	0.139	J	0.75	0.11	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Selenium	ND		0.50	0.17	mg/Kg		04/19/21 08:00	04/20/21 14:32	1

Lab Sample ID: LCS 140-48911/4-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 48911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Aluminum	100	100		mg/Kg		100	80 - 120	
Beryllium	2.50	2.51		mg/Kg		100	80 - 120	
Cadmium	2.50	2.56		mg/Kg		102	80 - 125	
Cobalt	5.00	5.10		mg/Kg		102	80 - 125	
Iron	50.0	52.8		mg/Kg		106	80 - 120	
Lithium	5.00	4.83		mg/Kg		97	80 - 120	
Manganese	5.00	5.15		mg/Kg		103	80 - 120	
Selenium	7.50	7.26		mg/Kg		97	80 - 120	

Lab Sample ID: LCSD 140-48911/5-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 48911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Aluminum	100	99.4		mg/Kg		99	80 - 120	1	30	
Beryllium	2.50	2.49		mg/Kg		100	80 - 120	1	30	
Cadmium	2.50	2.55		mg/Kg		102	80 - 125	0	30	
Cobalt	5.00	5.07		mg/Kg		101	80 - 125	1	30	
Iron	50.0	51.5		mg/Kg		103	80 - 120	2	30	
Lithium	5.00	4.74		mg/Kg		95	80 - 120	2	30	
Manganese	5.00	5.15		mg/Kg		103	80 - 120	0	30	
Selenium	7.50	7.16		mg/Kg		95	80 - 120	1	30	

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD	
								RPD	Limit
Aluminum	8600	B	7880		mg/Kg	☼	9		30

QC Sample Results

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Beryllium	0.44		0.519		mg/Kg	☼	17	30	
Cadmium	ND		ND		mg/Kg	☼	NC	30	
Iron	18000		17900		mg/Kg	☼	0.5	30	
Lithium	1.7	J	1.46	J	mg/Kg	☼	14	30	
Manganese	390	B	392		mg/Kg	☼	2	30	
Selenium	0.67		0.614		mg/Kg	☼	9	30	

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Cobalt	6.4	J	6.43	J	mg/Kg	☼	0.2	30	



QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Metals

Prep Batch: 48595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	Total	
MB 140-48595/3-A	Method Blank	Total/NA	Solid	Total	
LCS 140-48595/4-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-48595/5-A	Lab Control Sample Dup	Total/NA	Solid	Total	
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	Total	

SEP Batch: 48597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	Exchangeable	
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	Exchangeable	

Prep Batch: 48654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	3010A	48597
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	3010A	48597
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	3010A	48597
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	48597
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	3010A	48597

SEP Batch: 48655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 2	Solid	Carbonate	
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	Carbonate	

Prep Batch: 48695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 2	Solid	3010A	48655
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	3010A	48655
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	3010A	48655
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	48655
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	3010A	48655

SEP Batch: 48696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 3	Solid	Non-Crystalline	
MB 140-48696/3-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	Non-Crystalline	

Prep Batch: 48739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 3	Solid	3010A	48696
MB 140-48696/3-B	Method Blank	Step 3	Solid	3010A	48696
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	3010A	48696

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QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Metals (Continued)

Prep Batch: 48739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	3010A	48696
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	3010A	48696

SEP Batch: 48740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 4	Solid	Metal Hydroxide	
MB 140-48740/3-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	Metal Hydroxide	

Prep Batch: 48783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 4	Solid	3010A	48740
MB 140-48740/3-B	Method Blank	Step 4	Solid	3010A	48740
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	3010A	48740
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	3010A	48740
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	3010A	48740

SEP Batch: 48784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	Organic-Bound	
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	Organic-Bound	

Prep Batch: 48867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	3010A	48784
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	3010A	48784
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	3010A	48784
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	48784
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	3010A	48784

SEP Batch: 48875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 6	Solid	Acid/Sulfide	
MB 140-48875/3-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-48875/4-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-48875/5-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	Acid/Sulfide	

Analysis Batch: 48880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	6010B SEP	48654
140-22369-1	PZ-51S-40-45'	Step 2	Solid	6010B SEP	48695
140-22369-1	PZ-51S-40-45'	Step 3	Solid	6010B SEP	48739
140-22369-1	PZ-51S-40-45'	Step 4	Solid	6010B SEP	48783
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	6010B SEP	48654
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	6010B SEP	48695

Eurofins TestAmerica, Knoxville

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Metals (Continued)

Analysis Batch: 48880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-48696/3-B	Method Blank	Step 3	Solid	6010B SEP	48739
MB 140-48740/3-B	Method Blank	Step 4	Solid	6010B SEP	48783
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	48654
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	48695
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	6010B SEP	48739
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	6010B SEP	48783
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	48654
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	48695
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	48739
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	48783
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	6010B SEP	48654
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	6010B SEP	48695
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	6010B SEP	48739
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	6010B SEP	48783

Prep Batch: 48911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 7	Solid	Residual	
MB 140-48911/3-A	Method Blank	Step 7	Solid	Residual	
LCS 140-48911/4-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-48911/5-A	Lab Control Sample Dup	Step 7	Solid	Residual	
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	Residual	

Analysis Batch: 48970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	6010B SEP	48867
140-22369-1	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
140-22369-1	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	6010B SEP	48867
MB 140-48875/3-A	Method Blank	Step 6	Solid	6010B SEP	48875
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	48867
LCS 140-48875/4-A	Lab Control Sample	Step 6	Solid	6010B SEP	48875
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	48867
LCSD 140-48875/5-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	48875
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	6010B SEP	48867
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875

Analysis Batch: 49029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
MB 140-48595/3-A	Method Blank	Total/NA	Solid	6010B	48595
MB 140-48911/3-A	Method Blank	Step 7	Solid	6010B SEP	48911
LCS 140-48595/4-A	Lab Control Sample	Total/NA	Solid	6010B	48595
LCS 140-48911/4-A	Lab Control Sample	Step 7	Solid	6010B SEP	48911
LCSD 140-48595/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	48595

Eurofins TestAmerica, Knoxville

QC Association Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Metals (Continued)

Analysis Batch: 49029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-48911/5-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595

Analysis Batch: 49056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Sum of Steps 1-7	Solid	6010B SEP	

General Chemistry

Analysis Batch: 48557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			49056	04/21/21 13:55	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			48557	04/06/21 14:48	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			49029	04/20/21 15:35	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			49029	04/20/21 17:00	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			49029	04/20/21 17:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 11:56	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:04	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:43	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:44	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:23	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			48970	04/19/21 14:40	KNC	TAL KNX
	Instrument ID: DUO									

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			49029	04/20/21 15:11	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 15:49	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			49029	04/20/21 16:46	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-48595/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:46	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-48597/3-B ^4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 11:42	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-48655/3-B ^3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:11	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-48696/3-B

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 12:50	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-48740/3-B

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:29	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-48784/3-B ^5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:29	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-48875/3-A

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:09	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-48911/3-A

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:32	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48595/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:51	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48597/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			48880	04/15/21 11:47	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48655/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			48880	04/15/21 12:16	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48696/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 12:55	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48740/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:34	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48784/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:34	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48875/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:14	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-48911/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:37	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48595/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:56	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48597/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			48880	04/15/21 11:52	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48655/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			48880	04/15/21 12:21	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48696/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:00	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48740/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:38	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48784/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:39	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48875/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:18	KNC	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-48911/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:41	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1 DU

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			49029	04/20/21 15:39	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			49029	04/20/21 17:05	KNC	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			49029	04/20/21 17:20	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 12:01	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:40	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:09	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:48	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:49	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:28	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			48970	04/19/21 14:45	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Knoxville

Lab Chronicle

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'

Lab Sample ID: 140-22369-1 DU

Date Collected: 03/19/21 09:21

Matrix: Solid

Date Received: 03/20/21 09:40

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			49029	04/20/21 15:30	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 15:54	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			49029	04/20/21 16:50	KNC	TAL KNX
Instrument ID: DUO										

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



Accreditation/Certification Summary

Client: Golder Associates Inc.
 Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Laboratory: Eurofins TestAmerica, Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TNI0189	01-01-22

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
6010B	Total	Solid	Aluminum
6010B	Total	Solid	Beryllium
6010B	Total	Solid	Cadmium
6010B	Total	Solid	Cobalt
6010B	Total	Solid	Iron
6010B	Total	Solid	Lithium
6010B	Total	Solid	Manganese
6010B	Total	Solid	Selenium
6010B SEP		Solid	Aluminum
6010B SEP		Solid	Beryllium
6010B SEP		Solid	Cadmium
6010B SEP		Solid	Cobalt
6010B SEP		Solid	Iron
6010B SEP		Solid	Lithium
6010B SEP		Solid	Manganese
6010B SEP		Solid	Selenium
6010B SEP	3010A	Solid	Aluminum
6010B SEP	3010A	Solid	Beryllium
6010B SEP	3010A	Solid	Cadmium
6010B SEP	3010A	Solid	Cobalt
6010B SEP	3010A	Solid	Iron
6010B SEP	3010A	Solid	Lithium
6010B SEP	3010A	Solid	Manganese
6010B SEP	3010A	Solid	Selenium
6010B SEP	Acid/Sulfide	Solid	Aluminum
6010B SEP	Acid/Sulfide	Solid	Beryllium
6010B SEP	Acid/Sulfide	Solid	Cadmium
6010B SEP	Acid/Sulfide	Solid	Cobalt
6010B SEP	Acid/Sulfide	Solid	Iron
6010B SEP	Acid/Sulfide	Solid	Li
6010B SEP	Acid/Sulfide	Solid	Manganese
6010B SEP	Acid/Sulfide	Solid	Selenium
6010B SEP	Residual	Solid	Aluminum
6010B SEP	Residual	Solid	Beryllium
6010B SEP	Residual	Solid	Cadmium
6010B SEP	Residual	Solid	Cobalt
6010B SEP	Residual	Solid	Iron
6010B SEP	Residual	Solid	Lithium
6010B SEP	Residual	Solid	Manganese
6010B SEP	Residual	Solid	Selenium
Moisture		Solid	Percent Moisture

Method Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Chain of Custody Record

Client Information Client Contact: Brian Steele Phone: 470-512-3923 Company: Golder Associates Inc. Address: 5170 Peachtree Road Building 100, Suite 300 City: Atlanta State: GA, Zip: 30341 Phone: 470-512-3923 Email: Brian_Steale@golder.com Project Name: SCS Site, Plant Branch Site: Plant Branch		Sampler: Brian Steele, Chris Iscove Lab PM: Henry, Ryan Phone: 470-512-3923 E-Mail: williamr.henry@eurofinset.com PWSID:		Carmer Tracking No(s): State of Origin:		COC No: 140-9065-2761.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Standard Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order not required WO #:		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaOH S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Total Number of Containers:	
Sample Identification: PE-SIS-40-45 Sample Date: 3-19-21 Sample Time: 09:21 Sample Type: G Matrix: S		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6010B_SEP - SEP - Metals		Special Instructions/Note:		Barcode: 140-22369 Chain of Custody	
Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Empty Kit Relinquished by:	
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date/Time: 3-19-21 13:05 Date/Time: 3/19/21 13:43 Date/Time: 3/19/21 13:43		Received by: [Signature] Received by: [Signature] Received by: [Signature]		Date/Time: 3/19/21 13:05 Date/Time: 3/19/21 13:43 Date/Time: 3/20/21 09:46	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: EETA Company: EETA Company: EETA		Company: EETA Company: EETA Company: EETA	



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/				
2. Were ambient air containers received intact?				<input type="checkbox"/> Containers, Broken	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Checked in lab <input type="checkbox"/> Yes <input type="checkbox"/> NA	RT: 1.9°C, 67.1, 6°C, Cooler #1516 9328 8777 Fedex Swiss Seal intact KWS 2/27/21
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: SC79 Correction factor: -0.3	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Box 16A: pH Preservation Box 18A: Residual Chlorine
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	Preservative: Lot Number: Exp Date: Analyst: Date: Time:
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	/			<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: 19005864 PM Instructions:					

Sample Receiving Associate: He W Date: 2/20/21 QA026R32.doc, 062719





February 16, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APIW
Work Orders: 609211,608983,609401 and 609152

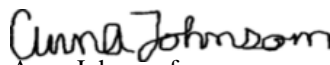
Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2023, February 01, 2023, February 02, 2023 and February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,


Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609152 GEL Work Order: 609152

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

** Analyte is a Tracer compound

J See case narrative for an explanation

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 608983 GEL Work Order: 608983

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- ** Analyte is a Tracer compound
- J See case narrative for an explanation

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609211 GEL Work Order: 609211

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609401 GEL Work Order: 609401

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

H Analytical holding time was exceeded

** Analyte is a surrogate compound

** Analyte is a Tracer compound

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-D-2 Project: GPCC00101
Sample ID: 609401001 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 14:26
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.40			SU			AJ1	02/02/23	1426	2382734	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5.5			mg/L			AJ1	02/02/23	1426	2382734	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		2290	26.6	80.0	mg/L		200	HXC1	02/04/23	0937	2378595	3
Chloride		0.551	0.0670	0.200	mg/L		1	HXC1	02/03/23	1911	2378595	4
Fluoride		0.547	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	02/12/23	1915	2378599	5
Cobalt		0.00383	0.000300	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.6	0.0800	0.250	mg/L	1.00	1					
Boron		2.37	0.104	0.300	mg/L	1.00	20	PRB	02/13/23	1228	2378599	6
Calcium		585	1.60	4.00	mg/L	1.00	20					
Iron		293	0.660	2.00	mg/L	1.00	20					
Magnesium		97.3	0.200	0.600	mg/L	1.00	20					
Manganese		15.8	0.0200	0.100	mg/L	1.00	20					
Potassium		57.2	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3560	23.8	100	mg/L			CH6	02/09/23	1328	2381199	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1952	2379521	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.2	1.45	4.00	mg/L			HH2	02/15/23	1330	2382858	9
Bicarbonate alkalinity (CaCO3)		26.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-D-2 Project: GPCC00101
Sample ID: 609401001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378598

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-D-2 Project: GPCC00101
Sample ID: 609401002 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 14:26
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Cd, Co, Se "As Received"												
Boron		2.36	0.104	0.300	mg/L	1.00	20	PRB	02/13/23	1242	2378599	1
Calcium		583	1.60	4.00	mg/L	1.00	20					
Iron		294	0.660	2.00	mg/L	1.00	20					
Magnesium		97.8	0.200	0.600	mg/L	1.00	20					
Manganese		16.0	0.0200	0.100	mg/L	1.00	20					
Potassium		57.3	1.60	6.00	mg/L	1.00	20					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	02/12/23	1941	2378599	2
Cobalt		0.00369	0.000300	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.3	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378598

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-B-1 Project: GPCC00101
Sample ID: 609211001 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 11:11
Receive Date: 02-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.32			SU			EOS1	02/01/23	1111	2377718	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1111	2377718	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		0.662	0.165	0.500	mg/L		5	HXC1	02/02/23	2322	2377739	3
Chloride		7.41	0.0670	0.200	mg/L		1	HXC1	02/02/23	1625	2377739	4
Fluoride		0.227	0.0330	0.100	mg/L		1					
Sulfate		160	2.66	8.00	mg/L		20	HXC1	02/02/23	2053	2377739	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.52	0.104	0.300	mg/L	1.00	20	BAJ	02/06/23	1619	2377747	6
Calcium		168	1.60	4.00	mg/L	1.00	20					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/05/23	1751	2377747	7
Cobalt		0.00123	0.000300	0.00100	mg/L	1.00	1					
Iron		1.08	0.0330	0.100	mg/L	1.00	1					
Magnesium		17.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0654	0.00100	0.00500	mg/L	1.00	1					
Potassium		12.0	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0305	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.4	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1605	2377896	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		343	1.45	4.00	mg/L			EK1	02/13/23	1127	2382489	10
Bicarbonate alkalinity (CaCO3)		343	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-B-1 Project: GPCC00101
Sample ID: 609211001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-E-1	Project: GPCC00101
Sample ID: 608983001	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-JAN-23 15:31	
Receive Date: 31-JAN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.95			SU			EOS1	01/30/23	1531	2376253	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5.5			mg/L			EOS1	01/30/23	1531	2376253	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.39	0.0670	0.200	mg/L		1	JLD1	01/31/23	1642	2376273	3
Fluoride	J	0.0643	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		80.9	1.33	4.00	mg/L		10	JLD1	02/01/23	0506	2376273	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/10/23	1714	2376276	5
Potassium		12.3	0.0800	0.300	mg/L	1.00	1					
Calcium		21.7	0.0800	0.200	mg/L	1.00	1	SKJ	02/09/23	2046	2376276	6
Cobalt		0.00376	0.000300	0.00100	mg/L	1.00	1					
Iron		22.4	0.0330	0.100	mg/L	1.00	1					
Sodium		3.75	0.0800	0.250	mg/L	1.00	1					
Boron		0.365	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1021	2376276	7
Magnesium		5.41	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0821	2376276	8
Manganese		0.361	0.00500	0.0250	mg/L	1.00	5	SKJ	02/10/23	1629	2376276	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		221	2.38	10.0	mg/L			CH6	02/06/23	1339	2378856	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1556	2377896	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		40.6	1.45	4.00	mg/L			EK1	02/10/23	1545	2382211	12
Bicarbonate alkalinity (CaCO3)		40.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-E-1
Sample ID: 608983001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
The following Prep Methods were performed:												
Method	Description	Analyst	Date	Time	Prep Batch							
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APIW

Client Sample ID: BRA-IW-B-2	Project: GPCC00101
Sample ID: 609152001	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-JAN-23 10:22	
Receive Date: 01-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.53			SU			AJ1	01/31/23	1022	2379484	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6.5			mg/L			AJ1	01/31/23	1022	2379484	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.28	0.0670	0.200	mg/L		1	JLD1	02/01/23	1701	2377022	3
Fluoride		0.787	0.165	0.500	mg/L		5	JLD1	02/01/23	2006	2377022	4
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		689	13.3	40.0	mg/L		100	JLD1	02/01/23	2037	2377022	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/09/23	0433	2377195	6
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		33.4	0.0330	0.100	mg/L	1.00	1					
Potassium		13.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.5	0.0800	0.250	mg/L	1.00	1					
Boron		1.16	0.0520	0.150	mg/L	1.00	10	BAJ	02/09/23	1142	2377195	7
Calcium		196	0.800	2.00	mg/L	1.00	10					
Magnesium		79.8	0.100	0.300	mg/L	1.00	10					
Manganese		2.74	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	4.76	20.0	mg/L			CH6	02/06/23	1339	2378856	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1602	2377896	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		143	1.45	4.00	mg/L			EK1	02/13/23	1027	2382489	10
Bicarbonate alkalinity (CaCO3)		143	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-B-2 Project: GPCC00101
Sample ID: 609152001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/02/23	0750	2377194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APIW

Client Sample ID: BRA-IW-C-2 Project: GPCC00101
Sample ID: 609152002 Client ID: GPCC001
Matrix: WG
Collect Date: 31-JAN-23 15:52
Receive Date: 01-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.67			SU			AJ1	01/31/23	1552	2379484	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		2.5			mg/L			AJ1	01/31/23	1552	2379484	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		467	5.32	16.0	mg/L		40	JLD1	02/01/23	2108	2377022	3
Chloride		5.56	0.0670	0.200	mg/L		1	JLD1	02/01/23	1732	2377022	4
Fluoride		0.242	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0578	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/09/23	0458	2377195	5
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		2.75	0.0330	0.100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.6	0.0800	0.250	mg/L	1.00	1					
Boron		1.39	0.0520	0.150	mg/L	1.00	10	BAJ	02/09/23	1150	2377195	6
Calcium		190	0.800	2.00	mg/L	1.00	10					
Magnesium		52.5	0.100	0.300	mg/L	1.00	10					
Manganese		1.24	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		952	2.38	10.0	mg/L			CH6	02/06/23	1339	2378856	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1603	2377896	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		257	1.45	4.00	mg/L			EK1	02/13/23	1047	2382489	9
Bicarbonate alkalinity (CaCO3)		257	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Contact: Atlanta, Georgia 30308
Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-C-2 Project: GPCC00101
Sample ID: 609152002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/02/23	0750	2377194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 14, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 608983

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2376273										
QC1205308090	608969009	DUP									
Chloride		40.7		40.7	mg/L	0.0246		(0%-20%)	JLD1	02/01/23	02:32
Fluoride	J	0.0767	J	0.0736	mg/L	4.13	^	(+/-0.100)		01/31/23	17:47
Nitrate-N		1.01		1.10	mg/L	7.77		(0%-20%)			
Sulfate		2800		2900	mg/L	3.59		(0%-20%)		02/01/23	04:05
QC1205308089	LCS										
Chloride	5.00			4.95	mg/L			99.1 (90%-110%)		01/31/23	10:32
Fluoride	2.50			2.48	mg/L			99.2 (90%-110%)			
Nitrate-N	2.50			2.45	mg/L			98 (90%-110%)			
Sulfate	10.0			9.94	mg/L			99.4 (90%-110%)			
QC1205308088	MB										
Chloride			U	ND	mg/L					01/31/23	10:02
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205308091	608969009	PS									
Chloride	5.00	4.07		9.53	mg/L			109 (90%-110%)		02/01/23	03:03

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 608983

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2376273										
Fluoride	2.50	J	0.0767	2.40	mg/L		93	(90%-110%)	JLD1	01/31/23	18:18
Nitrate-N	2.50		1.01	3.67	mg/L		106	(90%-110%)			
Sulfate	10.0		5.60	15.6	mg/L		100	(90%-110%)		02/01/23	04:35
Metals Analysis - ICPMS											
Batch	2376276										
QC1205308094	LCS										
Beryllium	0.0500			0.0574	mg/L		115	(80%-120%)	SKJ	02/10/23	15:46
Boron	0.100			0.102	mg/L		102	(80%-120%)	PRB	02/14/23	09:51
Calcium	2.00			2.18	mg/L		109	(80%-120%)	SKJ	02/09/23	19:49
Cobalt	0.0500			0.0495	mg/L		98.9	(80%-120%)			
Iron	2.00			2.03	mg/L		101	(80%-120%)			
Magnesium	2.00			2.39	mg/L		119	(80%-120%)		02/14/23	08:04
Manganese	0.0500			0.0501	mg/L		100	(80%-120%)		02/09/23	19:49
Potassium	2.00			2.12	mg/L		106	(80%-120%)		02/10/23	15:46
Sodium	2.00			2.16	mg/L		108	(80%-120%)		02/09/23	19:49
QC1205308093	MB										
Beryllium			J	0.000207	mg/L					02/10/23	15:43
Boron			U	ND	mg/L				PRB	02/14/23	09:49

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Calcium			U	ND	mg/L				SKJ	02/09/23	19:45
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Magnesium			U	ND	mg/L					02/14/23	07:53
Manganese			U	ND	mg/L					02/09/23	19:45
Potassium			U	ND	mg/L					02/10/23	15:43
Sodium			U	ND	mg/L					02/09/23	19:45
QC1205308095 608969001 MS											
Beryllium	0.0500	J	0.000318	0.0515	mg/L		102	(75%-125%)		02/10/23	17:26
Boron	0.100		0.128	0.219	mg/L		90.5	(75%-125%)	PRB	02/14/23	09:54
Calcium	2.00		217	219	mg/L		N/A	(75%-125%)	SKJ	02/10/23	16:40
Cobalt	0.0500		0.345	0.404	mg/L		N/A	(75%-125%)		02/09/23	19:56
Iron	2.00		17.8	20.5	mg/L		N/A	(75%-125%)			
Magnesium	2.00		303	306	mg/L		N/A	(75%-125%)		02/14/23	08:16
Manganese	0.0500		109	115	mg/L		N/A	(75%-125%)		02/10/23	15:52
Potassium	2.00		10.8	13.2	mg/L		N/A	(75%-125%)		02/10/23	17:26

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2376276											
Sodium	2.00	62.9		64.2	mg/L		N/A	(75%-125%)	SKJ	02/10/23	16:40
QC1205308096 608969001 MSD											
Beryllium	0.0500	J	0.000318	0.0527	mg/L	2.33	105	(0%-20%)		02/10/23	17:29
Boron	0.100		0.128	0.222	mg/L	1.59	94	(0%-20%)	PRB	02/14/23	09:56
Calcium	2.00		217	231	mg/L	5.2	N/A	(0%-20%)	SKJ	02/10/23	16:43
Cobalt	0.0500		0.345	0.409	mg/L	1.22	N/A	(0%-20%)		02/09/23	19:59
Iron	2.00		17.8	20.6	mg/L	0.871	N/A	(0%-20%)			
Magnesium	2.00		303	323	mg/L	5.48	N/A	(0%-20%)		02/14/23	08:18
Manganese	0.0500		109	115	mg/L	0.68	N/A	(0%-20%)		02/10/23	15:54
Potassium	2.00		10.8	13.4	mg/L	1.65	N/A	(0%-20%)		02/10/23	17:29
Sodium	2.00		62.9	67.8	mg/L	5.49	N/A	(0%-20%)		02/10/23	16:43
QC1205308097 608969001 SDILT											
Beryllium		J	0.318	U	ND	ug/L	N/A	(0%-20%)		02/10/23	17:34
Boron			128		33.5	ug/L	30.7	(0%-20%)	PRB	02/14/23	10:00
Calcium			21700	E	3280	ug/L	24.4*	(0%-20%)	SKJ	02/10/23	16:46
Cobalt			345		72.5	ug/L	5.03	(0%-20%)		02/09/23	20:06

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2376276										
Iron		17800		3740	ug/L	4.91		(0%-20%)	SKJ	02/09/23	20:06
Magnesium		30300	E	4690	ug/L	22.5*		(0%-20%)		02/14/23	08:19
Manganese		218		43.8	ug/L	.485		(0%-20%)		02/10/23	15:57
Potassium		10800		2010	ug/L	7.21		(0%-20%)		02/10/23	17:34
Sodium		6290	E	940	ug/L	25.2*		(0%-20%)		02/10/23	16:46
Solids Analysis											
Batch	2378856										
QC1205312080	609499003	DUP									
Total Dissolved Solids		143		151	mg/L	5.44*		(0%-5%)	CH6	02/06/23	13:39
QC1205312077	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/06/23	13:39
QC1205312076	MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23	13:39
Spectrometric Analysis											
Batch	2377896										
QC1205310860	LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23	15:53
QC1205310859	MB										
Total Sulfide			U	ND	mg/L					02/06/23	15:53
QC1205310863	609152001	PS									
Total Sulfide	0.400	U	ND	0.183	mg/L		45.7*	(75%-125%)		02/06/23	16:02

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2377896										
QC1205310864	609152001	PSD									
Total Sulfide	0.400	U	ND	0.188	mg/L	2.89	47*	(0%-15%)	HH2	02/06/23	16:03
Titration and Ion Analysis											
Batch	2382211										
QC1205317833	608969001	DUP									
Alkalinity, Total as CaCO3			62.4	62.8	mg/L	0.639		(0%-20%)	EK1	02/10/23	15:15
Bicarbonate alkalinity (CaCO3)			62.4	62.8	mg/L	0.639		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205317832	LCS										
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/10/23	15:10
QC1205317834	608969001	MS									
Alkalinity, Total as CaCO3	100		62.4	170	mg/L		107	(80%-120%)		02/10/23	15:18

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
E											
NJ											
E											
Q											
FB											
NI											
Y											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 16, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 609401

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378595										
QC1205311615	609413004	DUP									
Chloride		2.45		2.44	mg/L	0.209		(0%-20%)	HXC1	02/04/23	00:39
Fluoride		0.141		0.133	mg/L	5.85	^	(+/-0.100)			
Nitrate-N		0.427		0.427	mg/L	0.187	^	(+/-0.100)			
Sulfate		106		106	mg/L	0.0179		(0%-20%)		02/04/23	11:06
QC1205311617	609413014	DUP									
Chloride		2.67		2.67	mg/L	0.0412		(0%-20%)		02/04/23	05:08
Fluoride		0.215		0.203	mg/L	6.08	^	(+/-0.100)			
Nitrate-N	U	ND	U	ND	mg/L	N/A					
Sulfate		702		700	mg/L	0.193		(0%-20%)		02/04/23	19:18
QC1205311614	LCS										
Chloride	5.00			4.85	mg/L			96.9 (90%-110%)		02/03/23	18:41
Fluoride	2.50			2.62	mg/L			105 (90%-110%)			
Nitrate-N	2.50			2.49	mg/L			99.5 (90%-110%)			
Sulfate	10.0			10.0	mg/L			100 (90%-110%)			
QC1205311613	MB										
Chloride			U	ND	mg/L					02/03/23	18:11

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378595										
Fluoride			U	ND	mg/L				HXC1	02/03/23	18:11
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205311616 609413004 PS											
Chloride	5.00	2.45		7.65	mg/L		104	(90%-110%)		02/04/23	01:09
Fluoride	2.50	0.141		2.65	mg/L		100	(90%-110%)			
Nitrate-N	2.50	0.427		2.90	mg/L		98.8	(90%-110%)			
Sulfate	10.0	10.6		21.4	mg/L		108	(90%-110%)		02/04/23	11:36
QC1205311618 609413014 PS											
Chloride	5.00	2.67		7.86	mg/L		104	(90%-110%)		02/04/23	07:07
Fluoride	2.50	0.215		2.71	mg/L		99.6	(90%-110%)			
Nitrate-N	2.50	U	ND	2.35	mg/L		94.1	(90%-110%)			
Sulfate	10.0	7.02		17.6	mg/L		106	(90%-110%)		02/04/23	20:48
Metals Analysis - ICPMS											
Batch	2378599										
QC1205311625 LCS											
Boron	0.100			0.109	mg/L		109	(80%-120%)	PRB	02/13/23	12:26
Cadmium	0.0500			0.0492	mg/L		98.5	(80%-120%)		02/12/23	19:12
Calcium	2.00			2.05	mg/L		103	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378599										
Cobalt	0.0500			0.0496	mg/L		99.1	(80%-120%)	PRB	02/12/23	19:12
Iron	2.00			1.95	mg/L		97.3	(80%-120%)			
Magnesium	2.00			2.06	mg/L		103	(80%-120%)			
Manganese	0.0500			0.0482	mg/L		96.4	(80%-120%)			
Potassium	2.00			1.94	mg/L		97.1	(80%-120%)			
Selenium	0.0500			0.0474	mg/L		94.7	(80%-120%)			
Sodium	2.00			2.00	mg/L		100	(80%-120%)			
QC1205311624	MB										
Boron			U	ND	mg/L					02/13/23	12:24
Cadmium			U	ND	mg/L					02/12/23	19:08
Calcium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378599										
Selenium			U	ND	mg/L				PRB	02/12/23	19:08
Sodium			U	ND	mg/L						
QC1205311626 609401001 MS											
Boron	0.100	2.37		2.55	mg/L		N/A	(75%-125%)		02/13/23	12:31
Cadmium	0.0500	U	ND	0.0485	mg/L		96.9	(75%-125%)		02/12/23	19:19
Calcium	2.00	585		586	mg/L		N/A	(75%-125%)		02/13/23	12:31
Cobalt	0.0500	0.00383		0.0513	mg/L		95	(75%-125%)		02/12/23	19:19
Iron	2.00	293		298	mg/L		N/A	(75%-125%)		02/13/23	12:31
Magnesium	2.00	97.3		100	mg/L		N/A	(75%-125%)			
Manganese	0.0500	15.8		15.9	mg/L		N/A	(75%-125%)			
Potassium	2.00	57.2		59.5	mg/L		N/A	(75%-125%)			
Selenium	0.0500	U	ND	0.0525	mg/L		104	(75%-125%)		02/12/23	19:19
Sodium	2.00	18.6		21.1	mg/L		N/A	(75%-125%)			
QC1205311627 609401001 MSD											
Boron	0.100	2.37		2.49	mg/L	2.25	N/A	(0%-20%)		02/13/23	12:33
Cadmium	0.0500	U	ND	0.0476	mg/L	1.94	95	(0%-20%)		02/12/23	19:23
Calcium	2.00	585		573	mg/L	2.1	N/A	(0%-20%)		02/13/23	12:33

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378599										
Cobalt	0.0500	0.00383		0.0515	mg/L	0.272	95.3	(0%-20%)	PRB	02/12/23	19:23
Iron	2.00	293		290	mg/L	2.88	N/A	(0%-20%)		02/13/23	12:33
Magnesium	2.00	97.3		98.4	mg/L	1.9	N/A	(0%-20%)			
Manganese	0.0500	15.8		15.6	mg/L	1.78	N/A	(0%-20%)			
Potassium	2.00	57.2		58.0	mg/L	2.54	N/A	(0%-20%)			
Selenium	0.0500	U	ND	0.0541	mg/L	3.01	108	(0%-20%)		02/12/23	19:23
Sodium	2.00	18.6		21.2	mg/L	0.636	N/A	(0%-20%)			
QC1205311628 609401001 SDILT											
Boron		119		27.3	ug/L	15.1		(0%-20%)		02/13/23	12:35
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/23	19:30
Calcium		29300		5810	ug/L	.692		(0%-20%)		02/13/23	12:35
Cobalt		3.83	J	0.788	ug/L	3.01		(0%-20%)		02/12/23	19:30
Iron		14600		2920	ug/L	.367		(0%-20%)		02/13/23	12:35
Magnesium		4870		982	ug/L	.893		(0%-20%)			
Manganese		790		157	ug/L	.705		(0%-20%)			
Potassium		2860		562	ug/L	1.84		(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378599										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/12/23	19:30
Sodium		18600		3630	ug/L	2.47		(0%-20%)			
Solids Analysis											
Batch	2381199										
QC1205315842	609419005	DUP									
Total Dissolved Solids	H	4100	H	4790	mg/L	15.5*		(0%-5%)	CH6	02/09/23	13:28
QC1205315840	LCS										
Total Dissolved Solids		300		302	mg/L		101	(95%-105%)		02/09/23	13:28
QC1205315839	MB										
Total Dissolved Solids			U	ND	mg/L					02/09/23	13:28
Spectrometric Analysis											
Batch	2379521										
QC1205313136	LCS										
Total Sulfide		0.400		0.401	mg/L		100	(85%-115%)	HH2	02/06/23	19:38
QC1205313135	MB										
Total Sulfide			U	ND	mg/L					02/06/23	19:36
QC1205313139	609276004	PS									
Total Sulfide		0.400	U	ND	0.354	mg/L	88.1	(75%-125%)		02/06/23	19:43
QC1205313140	609276004	PSD									
Total Sulfide		0.400	U	ND	0.358	mg/L	1	89	(0%-15%)	02/06/23	19:43
Titration and Ion Analysis											
Batch	2382858										
QC1205318856	609424002	DUP									
Alkalinity, Total as CaCO3		55.0		55.6	mg/L	1.08		(0%-20%)	HH2	02/15/23	13:36

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382858										
Bicarbonate alkalinity (CaCO3)		55.0		55.6	mg/L	1.08		(0%-20%)	HH2	02/15/23	13:36
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205318853 LCS											
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/15/23	13:00
QC1205318857 609424002 MS											
Alkalinity, Total as CaCO3	100	55.0		156	mg/L		101	(80%-120%)		02/15/23	13:38

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: February 13, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 609152

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377022										
QC1205309381	609144005	DUP									
Chloride		2.44		2.44	mg/L	0.131		(0%-20%)	JLD1	02/01/23	19:04
Fluoride	J	0.0482	J	0.0533	mg/L	10	^	(+/-0.100)			
Nitrate-N		2.39		2.40	mg/L	0.443		(0%-20%)			
Sulfate		0.713		0.706	mg/L	0.93	^	(+/-0.400)			
QC1205309380	LCS										
Chloride	5.00			4.96	mg/L			99.1 (90%-110%)		02/01/23	13:39
Fluoride	2.50			2.49	mg/L			99.6 (90%-110%)			
Nitrate-N	2.50			2.46	mg/L			98.3 (90%-110%)			
Sulfate	10.0			9.91	mg/L			99.1 (90%-110%)			
QC1205309379	MB										
Chloride			U	ND	mg/L					02/01/23	13:09
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205309382	609144005	PS									
Chloride	5.00	2.44		7.72	mg/L			105 (90%-110%)		02/01/23	19:35

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377022										
Fluoride	2.50	J	0.0482	2.53	mg/L		99.1	(90%-110%)	JLD1	02/01/23	19:35
Nitrate-N	2.50		2.39	5.04	mg/L		106	(90%-110%)			
Sulfate	10.0		0.713	10.5	mg/L		98.1	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2377195										
QC1205309578	LCS										
Boron	0.100			0.111	mg/L		111	(80%-120%)	BAJ	02/09/23	11:21
Cadmium	0.0500			0.0508	mg/L		102	(80%-120%)		02/09/23	04:29
Calcium	2.00			2.06	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0498	mg/L		99.7	(80%-120%)			
Iron	2.00			1.97	mg/L		98.4	(80%-120%)			
Magnesium	2.00			2.19	mg/L		110	(80%-120%)			
Manganese	0.0500			0.0501	mg/L		100	(80%-120%)			
Potassium	2.00			1.99	mg/L		99.3	(80%-120%)			
Selenium	0.0500			0.0503	mg/L		101	(80%-120%)			
Sodium	2.00			2.12	mg/L		106	(80%-120%)			
QC1205309577	MB										
Boron			U	ND	mg/L					02/09/23	11:19

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377195										
Cadmium			U	ND	mg/L				BAJ	02/09/23	04:26
Calcium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
QC1205309579 609152001 MS											
Boron	0.100			1.16	1.19	mg/L		N/A (75%-125%)		02/09/23	11:44
Cadmium	0.0500	U		ND	0.0478	mg/L		95.6 (75%-125%)		02/09/23	04:37
Calcium	2.00			196	191	mg/L		N/A (75%-125%)		02/09/23	11:44
Cobalt	0.0500	U		ND	0.0479	mg/L		95.8 (75%-125%)		02/09/23	04:37
Iron	2.00			33.4	34.5	mg/L		N/A (75%-125%)			
Magnesium	2.00			79.8	79.2	mg/L		N/A (75%-125%)		02/09/23	11:44

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QC Summary

Workorder: 609152

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377195										
Manganese	0.0500	2.74		2.71	mg/L		N/A	(75%-125%)	BAJ	02/09/23	11:44
Potassium	2.00	13.5		15.5	mg/L		N/A	(75%-125%)		02/09/23	04:37
Selenium	0.0500	U	ND	0.0454	mg/L		90.2	(75%-125%)			
Sodium	2.00	23.5		25.0	mg/L		N/A	(75%-125%)			
QC1205309580 609152001 MSD											
Boron	0.100	1.16		1.22	mg/L	2.25	N/A	(0%-20%)		02/09/23	11:46
Cadmium	0.0500	U	ND	0.0479	mg/L	0.176	95.8	(0%-20%)		02/09/23	04:40
Calcium	2.00	196		197	mg/L	3.51	N/A	(0%-20%)		02/09/23	11:46
Cobalt	0.0500	U	ND	0.0471	mg/L	1.71	94.2	(0%-20%)		02/09/23	04:40
Iron	2.00	33.4		34.5	mg/L	0.102	N/A	(0%-20%)			
Magnesium	2.00	79.8		79.8	mg/L	0.79	N/A	(0%-20%)		02/09/23	11:46
Manganese	0.0500	2.74		2.75	mg/L	1.42	N/A	(0%-20%)			
Potassium	2.00	13.5		15.3	mg/L	0.775	N/A	(0%-20%)		02/09/23	04:40
Selenium	0.0500	U	ND	0.0466	mg/L	2.67	92.6	(0%-20%)			
Sodium	2.00	23.5		25.1	mg/L	0.0561	N/A	(0%-20%)			
QC1205309581 609152001 SDILT											
Boron		116		25.7	ug/L	10.9		(0%-20%)		02/09/23	11:48

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377195										
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/09/23	04:47
Calcium		19600		4110	ug/L	5.02		(0%-20%)		02/09/23	11:48
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23	04:47
Iron		33400		7050	ug/L	5.67		(0%-20%)			
Magnesium		7980		1660	ug/L	4.17		(0%-20%)		02/09/23	11:48
Manganese		274		58.3	ug/L	6.35		(0%-20%)			
Potassium		13500		2710	ug/L	.275		(0%-20%)		02/09/23	04:47
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		23500		4340	ug/L	7.54		(0%-20%)			
Solids Analysis											
Batch	2378856										
QC1205312078	609382001 DUP										
Total Dissolved Solids		221		221	mg/L	0		(0%-5%)	CH6	02/06/23	13:39
QC1205312077	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/06/23	13:39
QC1205312076	MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23	13:39

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **609152**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2377896										
QC1205310860	LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23	15:53
QC1205310859	MB										
Total Sulfide			U	ND	mg/L					02/06/23	15:53
QC1205310863	609152001	PS									
Total Sulfide	0.400	U	ND	0.183	mg/L		45.7*	(75%-125%)		02/06/23	16:02
QC1205310864	609152001	PSD									
Total Sulfide	0.400	U	ND	0.188	mg/L	2.89	47*	(0%-15%)		02/06/23	16:03
Titration and Ion Analysis											
Batch	2382489										
QC1205318636	609152001	DUP									
Alkalinity, Total as CaCO3			143	143	mg/L	0.14		(0%-20%)	EK1	02/13/23	10:31
Bicarbonate alkalinity (CaCO3)			143	143	mg/L	0.14		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205319654	609212001	DUP									
Alkalinity, Total as CaCO3			117	118	mg/L	0.17		(0%-20%)		02/13/23	11:40
Bicarbonate alkalinity (CaCO3)			117	118	mg/L	0.17		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205318635	LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23	10:24
QC1205318637	609152001	MS									
Alkalinity, Total as CaCO3	100		143	247	mg/L		104	(80%-120%)		02/13/23	10:34

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382489										
QC1205319655	609212001	MS									
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)	EK1	02/13/23	11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 609152

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 16, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 609211

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377739										
QC1205310455	609211001	DUP									
Chloride		7.41		7.44	mg/L	0.473		(0%-20%)	HXC1	02/02/23	19:53
Fluoride		0.227		0.225	mg/L	0.929	^	(+/-0.100)			
Nitrate-N		0.662		0.656	mg/L	0.987	^	(+/-0.500)		02/02/23	23:52
Sulfate		160		171	mg/L	6.74		(0%-20%)		02/02/23	22:23
QC1205310454	LCS										
Chloride	5.00			4.84	mg/L			96.9 (90%-110%)		02/02/23	19:23
Fluoride	2.50			2.62	mg/L			105 (90%-110%)			
Nitrate-N	2.50			2.49	mg/L			99.5 (90%-110%)			
Sulfate	10.0			10.1	mg/L			101 (90%-110%)			
QC1205310453	MB										
Chloride			U	ND	mg/L					02/02/23	18:54
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205310456	609211001	PS									
Chloride	5.00	7.41		13.1	mg/L			114* (90%-110%)		02/02/23	20:23

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 609211

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2377739										
Fluoride	2.50	0.227		2.77	mg/L		102	(90%-110%)	HXC1	02/02/23	20:23
Nitrate-N	2.50	0.132		2.52	mg/L		95.7	(90%-110%)		02/03/23	00:22
Sulfate	10.0	8.01		18.7	mg/L		107	(90%-110%)		02/02/23	22:52
Metals Analysis - ICPMS											
Batch	2377747										
QC1205310468	LCS										
Boron	0.100			0.111	mg/L		111	(80%-120%)	BAJ	02/06/23	16:17
Cadmium	0.0500			0.0523	mg/L		105	(80%-120%)		02/05/23	17:48
Calcium	2.00			2.24	mg/L		112	(80%-120%)		02/06/23	16:17
Cobalt	0.0500			0.0505	mg/L		101	(80%-120%)		02/05/23	17:48
Iron	2.00			1.95	mg/L		97.3	(80%-120%)			
Magnesium	2.00			2.02	mg/L		101	(80%-120%)			
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)			
Potassium	2.00			1.84	mg/L		91.9	(80%-120%)			
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)			
Sodium	2.00			2.29	mg/L		114	(80%-120%)			
QC1205310467	MB										
Boron			U	ND	mg/L					02/06/23	16:15

GEL LABORATORIES LLC

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Cadmium			U	ND	mg/L				BAJ	02/05/23	17:44
Calcium			U	ND	mg/L					02/06/23	16:15
Cobalt			U	ND	mg/L					02/05/23	17:44
Iron			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
QC1205310469 609211001 MS											
Boron	0.100		1.52	1.74	mg/L		N/A	(75%-125%)		02/06/23	16:21
Cadmium	0.0500	U	ND	0.0500	mg/L		99.8	(75%-125%)		02/05/23	17:55
Calcium	2.00		168	185	mg/L		N/A	(75%-125%)		02/06/23	16:21
Cobalt	0.0500		0.00123	0.0493	mg/L		96.1	(75%-125%)		02/05/23	17:55
Iron	2.00		1.08	3.08	mg/L		100	(75%-125%)			
Magnesium	2.00		17.7	20.1	mg/L		N/A	(75%-125%)			

GEL LABORATORIES LLC

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Manganese	0.0500	0.0654		0.116	mg/L		101	(75%-125%)	BAJ	02/05/23	17:55
Potassium	2.00	12.0		14.5	mg/L		N/A	(75%-125%)			
Selenium	0.0500	0.0305		0.0816	mg/L		102	(75%-125%)			
Sodium	2.00	20.4		23.4	mg/L		N/A	(75%-125%)			
QC1205310470 609211001 MSD											
Boron	0.100	1.52		1.75	mg/L	0.244	N/A	(0%-20%)		02/06/23	16:23
Cadmium	0.0500	U ND		0.0500	mg/L	0.088	99.7	(0%-20%)		02/05/23	17:58
Calcium	2.00	168		186	mg/L	0.00965	N/A	(0%-20%)		02/06/23	16:23
Cobalt	0.0500	0.00123		0.0491	mg/L	0.396	95.7	(0%-20%)		02/05/23	17:58
Iron	2.00	1.08		3.05	mg/L	1.05	98.6	(0%-20%)			
Magnesium	2.00	17.7		19.9	mg/L	0.818	N/A	(0%-20%)			
Manganese	0.0500	0.0654		0.114	mg/L	1.61	97.5	(0%-20%)			
Potassium	2.00	12.0		14.4	mg/L	0.568	N/A	(0%-20%)			
Selenium	0.0500	0.0305		0.0831	mg/L	1.78	105	(0%-20%)			
Sodium	2.00	20.4		22.9	mg/L	2.07	N/A	(0%-20%)			
QC1205310471 609211001 SDILT											
Boron		75.9		17.1	ug/L	12.5		(0%-20%)		02/06/23	16:25

GEL LABORATORIES LLC

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2377747										
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/05/23	18:06
Calcium		8410		1740	ug/L	3.47		(0%-20%)		02/06/23	16:25
Cobalt		1.23	U	ND	ug/L	N/A		(0%-20%)		02/05/23	18:06
Iron		1080		226	ug/L	4.69		(0%-20%)			
Magnesium		17700		3080	ug/L	12.8		(0%-20%)			
Manganese		65.4		13.6	ug/L	4.21		(0%-20%)			
Potassium		12000		2170	ug/L	9.63		(0%-20%)			
Selenium		30.5		6.13	ug/L	.502		(0%-20%)			
Sodium		20400		3970	ug/L	2.98		(0%-20%)			
Solids Analysis											
Batch	2379677										
QC1205313479	609435002	DUP									
Total Dissolved Solids		857		820	mg/L	4.37		(0%-5%)	CH6	02/08/23	11:14
QC1205314103	609211001	DUP									
Total Dissolved Solids		597		602	mg/L	0.834		(0%-5%)		02/08/23	11:14
QC1205313478	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/23	11:14
QC1205313477	MB										
Total Dissolved Solids			U	ND	mg/L					02/08/23	11:14

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 609211

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2377896										
QC1205310860	LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23	15:53
QC1205310859	MB										
Total Sulfide			U	ND	mg/L					02/06/23	15:53
QC1205310863	609152001	PS									
Total Sulfide	0.400	U	ND	0.183	mg/L		45.7*	(75%-125%)		02/06/23	16:02
QC1205310864	609152001	PSD									
Total Sulfide	0.400	U	ND	0.188	mg/L	2.89	47*	(0%-15%)		02/06/23	16:03
Titration and Ion Analysis											
Batch	2382489										
QC1205318636	609152001	DUP									
Alkalinity, Total as CaCO3			143	143	mg/L	0.14		(0%-20%)	EK1	02/13/23	10:31
Bicarbonate alkalinity (CaCO3)			143	143	mg/L	0.14		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205319654	609212001	DUP									
Alkalinity, Total as CaCO3			117	118	mg/L	0.17		(0%-20%)		02/13/23	11:40
Bicarbonate alkalinity (CaCO3)			117	118	mg/L	0.17		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205318635	LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23	10:24
QC1205318637	609152001	MS									
Alkalinity, Total as CaCO3	100		143	247	mg/L		104	(80%-120%)		02/13/23	10:34

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QC Summary

Workorder: 609211

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382489										
QC1205319655	609212001	MS									
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)	EK1	02/13/23	11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

Workorder: 609211

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 609401**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2378599

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2378598

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609401001	BRA-IW-D-2
609401002	BRA-IW-D-2
1205311624	Method Blank (MB)ICP-MS
1205311625	Laboratory Control Sample (LCS)
1205311628	609401001(BRA-IW-D-2L) Serial Dilution (SD)
1205311626	609401001(BRA-IW-D-2S) Matrix Spike (MS)
1205311627	609401001(BRA-IW-D-2SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 609401001 (BRA-IW-D-2) and 609401002 (BRA-IW-D-2) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609401	
	001	002

Boron	20X	20X
Calcium	20X	20X
Iron	20X	20X
Magnesium	20X	20X
Manganese	20X	20X
Potassium	20X	20X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2378595

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609401001	BRA-IW-D-2
1205311613	Method Blank (MB)
1205311614	Laboratory Control Sample (LCS)
1205311615	609413004(NonSDG) Sample Duplicate (DUP)
1205311616	609413004(NonSDG) Post Spike (PS)
1205311617	609413014(NonSDG) Sample Duplicate (DUP)
1205311618	609413014(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205311615 (Non SDG 609413004DUP), 1205311616 (Non SDG 609413004PS), 1205311617 (Non SDG 609413014DUP), 1205311618 (Non SDG 609413014PS) and 609401001 (BRA-IW-D-2) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609401
	001
Sulfate	200X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2381199

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609401001	BRA-IW-D-2
1205315839	Method Blank (MB)
1205315840	Laboratory Control Sample (LCS)
1205315842	609419005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205315842 (Non SDG 609419005DUP)	15.5* (0%-5%)

Technical Information

Holding Times

Sample (See Below) was not available for analysis until after the holding time had expired. The data is qualified.

Sample	Analyte	Value
1205315842 (Non SDG 609419005DUP)		Received 08-FEB-23, within holding, analyzed 09-FEB-23, out of holding 08-FEB-23

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205315842 (Non SDG 609419005DUP) and 609401001 (BRA-IW-D-2).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2379521

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609401001	BRA-IW-D-2
1205313135	Method Blank (MB)
1205313136	Laboratory Control Sample (LCS)
1205313139	609276004(NonSDG) Post Spike (PS)
1205313140	609276004(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382858

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609401001	BRA-IW-D-2
1205318853	Laboratory Control Sample (LCS)
1205318856	609424002(NonSDG) Sample Duplicate (DUP)
1205318857	609424002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 609211**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2377747

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2377746

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609211001	BRA-IW-B-1
1205310467	Method Blank (MB)ICP-MS
1205310468	Laboratory Control Sample (LCS)
1205310471	609211001(BRA-IW-B-1L) Serial Dilution (SD)
1205310469	609211001(BRA-IW-B-1S) Matrix Spike (MS)
1205310470	609211001(BRA-IW-B-1SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609211
	001
Boron	20X
Calcium	20X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2377739

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609211001	BRA-IW-B-1
1205310453	Method Blank (MB)
1205310454	Laboratory Control Sample (LCS)
1205310455	609211001(BRA-IW-B-1) Sample Duplicate (DUP)
1205310456	609211001(BRA-IW-B-1) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205310456 (BRA-IW-B-1PS)	114* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS) and 609211001 (BRA-IW-B-1) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS) and 609211001 (BRA-IW-B-1) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609211
	001
Nitrate-N	5X
Sulfate	20X

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2379677

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609211001	BRA-IW-B-1
1205313477	Method Blank (MB)
1205313478	Laboratory Control Sample (LCS)
1205313479	609435002(NonSDG) Sample Duplicate (DUP)
1205314103	609211001(BRA-IW-B-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205314103 (BRA-IW-B-1DUP).

Product: Sulfide, Total
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609211001	BRA-IW-B-1
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609211001	BRA-IW-B-1
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 608983**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2376276

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2376275

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608983001	BRA-IW-E-1
1205308093	Method Blank (MB)ICP-MS
1205308094	Laboratory Control Sample (LCS)
1205308097	608969001(BRA-PZ-66IL) Serial Dilution (SD)
1205308095	608969001(BRA-PZ-66IS) Matrix Spike (MS)
1205308096	608969001(BRA-PZ-66ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205308097 (BRA-PZ-66ISDILT)	Calcium	24.4 *(0%-20%)

	Magnesium	22.5 *(0%-20%)
	Sodium	25.2 *(0%-20%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 608983001 (BRA-IW-E-1) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	608983
	001
Boron	5X
Manganese	5X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2376273

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608983001	BRA-IW-E-1
1205308088	Method Blank (MB)
1205308089	Laboratory Control Sample (LCS)
1205308090	608969009(BRA-PZ-64I) Sample Duplicate (DUP)
1205308091	608969009(BRA-PZ-64I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205308090 (BRA-PZ-64IDUP), 1205308091 (BRA-PZ-64IPS) and 608983001 (BRA-IW-E-1) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608983
	001

Sulfate	10X
---------	-----

Miscellaneous Information

Manual Integrations

Sample 1205308090 (BRA-PZ-64IDUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2378856

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608983001	BRA-IW-E-1
1205312076	Method Blank (MB)
1205312077	Laboratory Control Sample (LCS)
1205312080	609499003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205312080 (Non SDG 609499003DUP)	5.44* (0%-5%)

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608983001	BRA-IW-E-1

1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382211

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
608983001	BRA-IW-E-1
1205317832	Laboratory Control Sample (LCS)
1205317833	608969001(BRA-PZ-66I) Sample Duplicate (DUP)
1205317834	608969001(BRA-PZ-66I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 609152**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2377195

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2377194

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205309577	Method Blank (MB)ICP-MS
1205309578	Laboratory Control Sample (LCS)
1205309581	609152001(BRA-IW-B-2L) Serial Dilution (SD)
1205309579	609152001(BRA-IW-B-2S) Matrix Spike (MS)
1205309580	609152001(BRA-IW-B-2SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609152	
	001	002
Boron	10X	10X

Calcium	10X	10X
Magnesium	10X	10X
Manganese	10X	10X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2377022

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205309379	Method Blank (MB)
1205309380	Laboratory Control Sample (LCS)
1205309381	609144005(NonSDG) Sample Duplicate (DUP)
1205309382	609144005(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 609152001 (BRA-IW-B-2) and 609152002 (BRA-IW-C-2) were diluted because target analyte concentrations exceeded the calibration range. The following sample 609152001 (BRA-IW-B-2) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609152	
	001	002
Fluoride	5X	1X
Nitrate-N	5X	1X
Sulfate	100X	40X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2378856

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205312076	Method Blank (MB)
1205312077	Laboratory Control Sample (LCS)
1205312078	609382001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 609152001 (BRA-IW-B-2).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - IW
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Send Results To: SCS & Geosyntec Contacts
 Collected By: T. Goble ACC
 Sample ID: _____
 *For composites - Indicate start and stop date/time

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (2)	Sample Matrix (6)
BRA-IW-B-1	02/01/23	1111	G	N	WG
BRA-					
BRA-					
BRA-					
BRA-					
BRA-					

Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
Yes, please supply isotopic info) (7) Known or possible Hazards		<input type="checkbox"/> C ₁ , F, SO ₄ , TDS, NO ₃ <input type="checkbox"/> EPA 300, SM 2540C <input type="checkbox"/> Total & Bicarb Alk <input type="checkbox"/> SM 2320B <input type="checkbox"/> Cd, Co, Se + Metals * <input type="checkbox"/> EPA 6020, 6010 <input type="checkbox"/> B, Pb, Cu + Metals * <input type="checkbox"/> EPA 6020, 6040 <input type="checkbox"/> Sulfide SM 4500	<- Preservative Type (6)	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023SI
Radioactive (if yes, please supply isotopic info)				field pH = 7.32
				field ferrous iron = 0.0
				field pH =
				field ferrous iron =
				field pH =
				field ferrous iron =
				field pH =
				field ferrous iron =
				field pH =
				field ferrous iron =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
Tasha Goble	2-2-23	Erin Trent	2/2/23	9:59
Erin Trent	2/2/23	Erin Trent	2/2/23	2:30

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Fe, Mg, Mn, K, Na

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)

Waste code(s): _____

TSCA Regulated
 PCB = Polychlorinated biphenyls

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Description: _____

Please provide any additional details below regarding handling and/or sample(s), type of site collected from, odd matrices, etc.):



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

609211 | 609212

Client: **GPCC** SDG/AR/COC/Work Order:

Received By: **Stacy Boone** Date Received: **2/2/2023**

Carrier and Tracking Number
Circle Applicable:
FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 9 CPM / mR/hr Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria: Yes NA No Comments/Qualifiers (Required for Non-Conforming Items)

1 Shipping containers received intact and sealed? Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

2 Chain of custody documents included with shipment? Circle Applicable: Client contacted and provided COC COC created upon receipt

3 Samples requiring cold preservation within (0 ≤ deg. C)?* Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 1°C

4 Daily check performed and passed on IR temperature gun? Temperature Device Serial #: IR3-22 Secondary Temperature Device Serial # (If Applicable):

5 Sample containers intact and sealed? Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

6 Samples requiring chemical preservation at proper pH? Sample ID's and Containers Affected: If Preservation added, Lot#:

7 Do any samples require Volatile Analysis? If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, inke to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:

8 Samples received within holding time? ID's and tests affected:

9 Sample ID's on COC match ID's on bottles? ID's and containers affected:

10 Date & time on COC match date & time on bottles? Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)

11 Number of containers received match number indicated on COC? Circle Applicable: No container count on COC Other (describe)

12 Are sample containers identifiable as GEL provided by use of GEL labels?

13 COC form is properly signed in relinquished/received sections? Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials Am Date 2/3/23 Page 1 of 1

609401

Page: 1 of 1
 Project # _____
 GEL Quote #: _____
 COC Number 01: _____
 PO Number: _____
 Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - IW
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: ACC
 Sample ID: _____
 Send Results To: SCS & Geosyntec Contacts
 Phone # 404-506-7116
 Fax # _____
 GEL Laboratories LLC
 Laboratory | Radiochemistry | Radiobiology | Specialty Analyses
 Chain of Custody and Analytical Request
 GEL: Project Manager: Erin Trent
 GEL: Work Order Number: _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	Date Collected (mm/dd/yyyy)	Time Collected (mm)	QC Code	Field Filtered	Yield	Matrix	Should this sample be considered?	Turn number of container	Sample Analysis Requested (fill in the number of containers for each test)			Preservative Type (6)	Comments Note: extra sample is required for sample specific QC Task Code: BRA-GCR-ASSMT-2023S1
									Ca, Co + Metals	Ba, Co + Metals	Cr, Pb, SO4, TDS, NO3		
BRA-IW-D-2	02/02/23	1426	G	N	WG	N	N	5	X	X	X	field pH = 6.40	
BRA-IW-D-2	02/02/23	1426	G	Y	WG	N	N	1	X			field ferrous iron = 5.5 field pH = N/A field ferrous iron = N/A	
BRA-												field pH =	
BRA-												field ferrous iron =	
BRA-												field ferrous iron =	

Chain of Custody Signatures
 Requisitioned By (Signed) _____ Date _____ Time _____
 Received by (Signed) _____ Date _____ Time _____
 1. _____ 2/3/23
 2. _____ 1320
 3. _____
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Fe, Mg, Mn, K, Na
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, ED = Field Duplicate, EP = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SP=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: BA = Hydrochloric Acid, SE = Sulfuric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Fluoric, ST = Sodium Thiosulfate. If no preservative is added = leave field blank.
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards: _____
 FI = Flammable/ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste: _____
 LW = Listed Waste
 F, K, P and U = Listed wastes
 Waste code(s): _____
 RCRA Metals: _____
 AS = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Hg = Mercury
 Se = Selenium
 Ag = Silver
 MR = Misc. RCRA metals
 PCB = Polychlorinated biphenyls
 TSCA Regulated
 Other: _____
 OT = Other / Unknown
 (i.e. High/Low pH, asbestos, beryllium, bromines, other misc. health hazards, etc)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns (i.e. Origin of sample(s), Type of site collected from, etc. matrices, etc)

SAMPLE RECEIPT & REVIEW FORM

609401

Client: <u>LPCC</u>		SDG/AR/COC/Work Order: <u>609 A 00</u>	
Received By: <u>MCS</u>		Date Received: <u>2-3-23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier <u>Other</u> <u>Client drop off</u>	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample Receipt Criteria		Yes	NA
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Daily check performed and passed on IR (temperature gun)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8 Samples received within holding time?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials AM Date 2/6/23 Page 1 of 1



Laboratories LLC
 Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - IW
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Collected By: *T. Goble* ACC
 Send Results To: SCS & Geosyntec Contacts
 GEL Work Order Number: _____
 Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code ⁽³⁾	Field Filtered ⁽²⁾	Sample Matrix ⁽⁶⁾	Radioreactive (if isotopic info)	Should this sample be considered:	Sample Analysis Requested ⁽⁵⁾				Comments
								() Known or possible Hazards	NI	NI	NI	
BRA-IW-B-2	01/31/23	1022	G	N	WG	N	() Known or possible Hazards	NI	NI	NI	NI	field pH = 6.53 field ferrous iron = 6.5
BRA-IW-C-2	01/31/23	1552	G	N	WG	N	() Known or possible Hazards	NI	NI	NI	NI	field pH = 7.67 field ferrous iron = 2.5
BRA-												field pH = _____ field ferrous iron = _____
BRA-												field pH = _____ field ferrous iron = _____
BRA-												field pH = _____ field ferrous iron = _____

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. *T. Goble* 2-1-23 09:16
 2. *Erin Trent* 2-1-23 1:47
 3. _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Fe,Mn,K,Na
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes)
 Waste code(s): _____
 Other
 OT = Other / Unknown
 (i.e. High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

ET 609152

Client: <u>GCPD</u>	SDG/AR/COC/Work Order:
Received By: <u>MVH</u>	Date Received: <u>02-01-2023</u>
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>00</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>3</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials [Signature] Date 2/2/23 Page 1 of 1

Page: 1 of 1
 Project # _____
 GEL Quote #: _____
 COC Number (1): **608983**
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - IW
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
GEL Work Order Number:
 Send Results To: SCS & Geosyntec Contacts

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (2)	Sample Matrix (3)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments
						Radioactive (4)	isotopic info) Yes, please supply		(7) Known or possible Hazards	NI	NI	NI	
BRA-IW-E-1	01/30/23	1531	G	N	WG	N	N	5	CA, Co, Se, Fe, Metals * SM 2320B	Be, Co + Metals * EPA 6020, 6010	NI	Sulfide SM 4500	QC Note: extra sample is required for sample specific Task Code: BRA-CCR-ASSMT-2023SI field pH = 5.95 field ferrous iron = 5.5
BRA-													field pH =
BRA-													field ferrous iron =
BRA-													field pH =
BRA-													field ferrous iron =
BRA-													field pH =
BRA-													field ferrous iron =

Chain of Custody Signatures
 Received by (signed) Date Time
 1. *John Goble* 1-30-23 1610
 2. *Erin Trent* 1/31/23 0901
 3. _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Fe, Mg, Mn, K, Na
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 1 °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, FB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Ascorbic Acid, AA = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Listed Waste
 LW = Listed Waste
 (F, K, P and U listed wastes.)
 Waste code(s): _____
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, acid matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

ET

Client: GARC SDG/AR/COC/Work Order: 608969 608972
 Received By: MVH Date Received: 01-31-2023

Carrier and Tracking Number
 FedEx Express FedEx Ground UPS Field Services Courier Other
COOLER 3-1
COOLER 2-2
COOLER 1-1

Suspected Hazard Information

Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
	<input checked="" type="checkbox"/>	A) Shipped as a DOT Hazardous?
	<input checked="" type="checkbox"/>	B) Did the client designate the samples are to be received as radioactive?
	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
	<input checked="" type="checkbox"/>	C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>00</u> CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	<input checked="" type="checkbox"/>	D) Did the client designate samples are hazardous?
	<input checked="" type="checkbox"/>	E) Did the RSO identify possible hazards? If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>BRA-P2-571, BRA-P2-661, BRA-P2-641</u> If Preservation added, Lot #: <u>1244-13 Sodium Hydroxide</u>
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

List of current GEL Certifications as of 16 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 13 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
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Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
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Colorado	SC00012
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Kansas NELAP	E-10332
Kentucky SDWA	90129
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Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
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New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 14 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
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New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
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S. Carolina Radiochem	10120002
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Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:16:11 AM

Project: Plant Branch Ash Ponds

Operator Name: Taylor Goble

Location Name: IW-B-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.7 ft Total Depth: 41.7 ft Initial Depth to Water: 23.32 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 13750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.58 ft	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1111. Cloudy 61 degrees. Ferrous iron: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 30	+/- 0.1	
2/1/2023 10:16 AM	00:00	7.39 pH	20.44 °C	971.35 µS/cm	4.18 mg/L	58.30 NTU	160.6 mV	23.32 ft	250.00 ml/min
2/1/2023 10:21 AM	05:00	7.22 pH	19.02 °C	991.16 µS/cm	0.45 mg/L	43.50 NTU	46.8 mV	23.55 ft	250.00 ml/min
2/1/2023 10:26 AM	10:00	7.23 pH	18.89 °C	973.67 µS/cm	0.27 mg/L	33.80 NTU	15.7 mV	23.76 ft	250.00 ml/min
2/1/2023 10:31 AM	15:00	7.26 pH	18.88 °C	974.73 µS/cm	0.20 mg/L	29.80 NTU	17.7 mV	23.86 ft	250.00 ml/min
2/1/2023 10:36 AM	20:00	7.28 pH	18.90 °C	966.23 µS/cm	0.15 mg/L	24.00 NTU	11.1 mV	23.90 ft	250.00 ml/min
2/1/2023 10:41 AM	25:00	7.30 pH	18.83 °C	963.52 µS/cm	0.13 mg/L	16.40 NTU	9.6 mV	23.90 ft	250.00 ml/min
2/1/2023 10:46 AM	30:00	7.31 pH	18.71 °C	963.85 µS/cm	0.12 mg/L	23.20 NTU	7.6 mV	23.90 ft	250.00 ml/min
2/1/2023 10:51 AM	35:00	7.32 pH	18.67 °C	960.30 µS/cm	0.11 mg/L	13.30 NTU	6.7 mV	23.90 ft	250.00 ml/min
2/1/2023 10:56 AM	40:00	7.40 pH	18.71 °C	919.52 µS/cm	0.10 mg/L	5.40 NTU	18.8 mV	23.90 ft	250.00 ml/min
2/1/2023 11:01 AM	45:00	7.32 pH	18.75 °C	945.88 µS/cm	0.09 mg/L	11.70 NTU	7.4 mV	23.90 ft	250.00 ml/min
2/1/2023 11:06 AM	50:00	7.36 pH	18.66 °C	920.45 µS/cm	0.09 mg/L	8.90 NTU	9.4 mV	23.90 ft	250.00 ml/min
2/1/2023 11:11 AM	55:00	7.32 pH	18.62 °C	943.06 µS/cm	0.08 mg/L	4.40 NTU	8.3 mV	23.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/31/2023 9:47:19 AM

Project: Plant Branch Ash Ponds

Operator Name: Taylor Goble

Location Name: IW-B-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.52 ft Total Depth: 19.52 ft Initial Depth to Water: 5.18 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1022. Cloudy 57 degrees. Ferrous iron: 6.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 30	+/- 0.1	
1/31/2023 9:47 AM	00:00	6.97 pH	16.61 °C	1,342.5 µS/cm	0.36 mg/L	27.20 NTU	-47.7 mV	5.25 ft	300.00 ml/min
1/31/2023 9:52 AM	05:00	6.62 pH	16.93 °C	1,389.5 µS/cm	0.10 mg/L	15.20 NTU	-79.0 mV	5.25 ft	300.00 ml/min
1/31/2023 9:57 AM	10:00	6.50 pH	17.13 °C	1,456.1 µS/cm	0.06 mg/L	10.70 NTU	-83.8 mV	5.25 ft	300.00 ml/min
1/31/2023 10:02 AM	15:00	6.47 pH	17.28 °C	1,474.6 µS/cm	0.04 mg/L	9.17 NTU	-85.6 mV	5.25 ft	300.00 ml/min
1/31/2023 10:07 AM	20:00	6.49 pH	17.32 °C	1,476.2 µS/cm	0.02 mg/L	7.28 NTU	-87.7 mV	5.25 ft	300.00 ml/min
1/31/2023 10:12 AM	25:00	6.48 pH	17.41 °C	1,492.2 µS/cm	0.02 mg/L	6.54 NTU	-89.6 mV	5.25 ft	300.00 ml/min
1/31/2023 10:17 AM	30:00	6.52 pH	17.46 °C	1,489.3 µS/cm	0.01 mg/L	5.88 NTU	-91.0 mV	5.25 ft	300.00 ml/min
1/31/2023 10:22 AM	35:00	6.53 pH	17.48 °C	1,507.7 µS/cm	0.01 mg/L	4.61 NTU	-91.9 mV	5.25 ft	300.00 ml/min

Samples

Sample ID:	Description:
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June 14, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Order: 624831

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 06, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 624832 GEL Work Order: 624832

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____

Cinna Johnson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 624831 GEL Work Order: 624831

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____

Cinna Johnson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-5	Project: GPCC00101
Sample ID: 624831001	Client ID: GPCC001
Matrix: WG	
Collect Date: 05-JUN-23 11:05	
Receive Date: 06-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.81			SU			EOS1	06/05/23	1105	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	06/05/23	1105	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		62.1	1.33	4.00	mg/L		10	JLD1	06/06/23	2358	2439679	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2	JLD1	06/06/23	2222	2439679	4
Chloride		0.693	0.0670	0.200	mg/L		1	JLD1	06/06/23	1632	2439679	5
Fluoride		0.113	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.366	0.0260	0.0750	mg/L	1.00	5	PRB	06/12/23	2012	2439741	6
Calcium		36.8	0.0800	0.200	mg/L	1.00	1	PRB	06/12/23	2044	2439741	7
Cobalt	J	0.000852	0.000300	0.00100	mg/L	1.00	1					
Iron		21.1	0.0330	0.100	mg/L	1.00	1					
Magnesium		5.14	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.751	0.00100	0.00500	mg/L	1.00	1					
Potassium		11.6	0.0800	0.300	mg/L	1.00	1					
Sodium		2.97	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		232	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1721	2440523	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		96.1	0.725	2.00	mg/L			JW2	06/08/23	1024	2440524	10
Bicarbonate alkalinity (CaCO3)		96.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-5
Sample ID: 624831001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3005A	ICP-MS 3005A	PREP		JD2	06/07/23		0730		2439740		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	EPA 300.0		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SM 2540C		
9	SM 4500-S (2-) D		
10	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-4	Project: GPCC00101
Sample ID: 624831002	Client ID: GPCC001
Matrix: WG	
Collect Date: 05-JUN-23 13:15	
Receive Date: 06-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.79			SU			EOS1	06/05/23	1315	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		2			mg/L			EOS1	06/05/23	1315	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.112	0.0330	0.100	mg/L		1	JLD1	06/06/23	1529	2439679	3
Chloride		19.3	0.335	1.00	mg/L		5	JLD1	06/06/23	1943	2439679	4
Nitrate-N		1.16	0.165	0.500	mg/L		5					
Sulfate		284	5.32	16.0	mg/L		40	JLD1	06/06/23	2015	2439679	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		0.00586	0.000300	0.00100	mg/L	1.00	1	PRB	06/12/23	2102	2439741	6
Iron		2.23	0.0330	0.100	mg/L	1.00	1					
Magnesium		24.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.821	0.00100	0.00500	mg/L	1.00	1					
Potassium		13.8	0.0800	0.300	mg/L	1.00	1					
Sodium		40.9	0.0800	0.250	mg/L	1.00	1					
Calcium		95.2	1.60	4.00	mg/L	1.00	20	PRB	06/13/23	1512	2439741	7
Boron		1.05	0.130	0.375	mg/L	1.00	25	PRB	06/13/23	0921	2439741	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		593	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1721	2440523	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		117	0.725	2.00	mg/L			JW2	06/08/23	1028	2440524	11
Bicarbonate alkalinity (CaCO3)		117	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-4 Project: GPCC00101
Sample ID: 624831002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3005A	ICP-MS	3005A PREP		JD2	06/07/23		0730		2439740		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	EPA 300.0		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SM 2540C		
10	SM 4500-S (2-) D		
11	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-3	Project: GPCC00101
Sample ID: 624831003	Client ID: GPCC001
Matrix: WG	
Collect Date: 05-JUN-23 15:10	
Receive Date: 06-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		8.40			SU			EOS1	06/05/23	1510	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	06/05/23	1510	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.129	0.0330	0.100	mg/L		1	JLD1	06/06/23	1600	2439679	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		29.6	2.68	8.00	mg/L		40	JLD1	06/07/23	0932	2439679	4
Sulfate		636	5.32	16.0	mg/L		40					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	06/12/23	2106	2439741	5
Iron		0.123	0.0330	0.100	mg/L	1.00	1					
Magnesium		34.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0701	0.00100	0.00500	mg/L	1.00	1					
Potassium		14.9	0.0800	0.300	mg/L	1.00	1					
Calcium		166	1.60	4.00	mg/L	1.00	20	PRB	06/13/23	1515	2439741	6
Sodium		50.0	1.60	5.00	mg/L	1.00	20					
Boron		1.28	0.130	0.375	mg/L	1.00	25	PRB	06/13/23	0923	2439741	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		826	4.76	20.0	mg/L			CH6	06/07/23	1447	2440211	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1722	2440523	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		148	0.725	2.00	mg/L			JW2	06/08/23	1032	2440524	10
Bicarbonate alkalinity (CaCO3)		146	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		2.20	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Report Date: June 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-3 Project: GPCC00101
Sample ID: 624831003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3005A	ICP-MS 3005A	PREP		JD2	06/07/23		0730		2439740		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SM 2540C		
9	SM 4500-S (2-) D		
10	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: June 15, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I	Project: GPCC00101
Sample ID: 624832001	Client ID: GPCC001
Matrix: WG	
Collect Date: 06-JUN-23 09:40	
Receive Date: 06-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.83			SU			EOS1	06/06/23	0940	2439624	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1.5			mg/L			EOS1	06/06/23	0940	2439624	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		304	5.32	16.0	mg/L		40	JLD1	06/07/23	0134	2439679	3
Chloride		8.22	0.0670	0.200	mg/L		1	JLD1	06/06/23	1911	2439679	4
Fluoride	J	0.0891	0.0330	0.100	mg/L		1					
Nitrate-N		0.793	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		1.38	0.0330	0.100	mg/L	1.00	1	BAJ	06/12/23	1506	2439851	5
Magnesium		37.9	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.602	0.00100	0.00500	mg/L	1.00	1					
Potassium		5.65	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0237	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.8	0.0800	0.250	mg/L	1.00	1					
Boron		1.24	0.0520	0.150	mg/L	1.00	10	BAJ	06/13/23	1146	2439851	6
Calcium		70.1	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		523	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1723	2440523	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.4	0.725	2.00	mg/L			JW2	06/08/23	1036	2440524	9
Bicarbonate alkalinity (CaCO3)		43.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 15, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-74I Project: GPCC00101
Sample ID: 624832001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3005A	ICP-MS 3005A	PREP		JD2	06/07/23		0730		2439850		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	GEL Field Method		
3	EPA 300.0		
4	EPA 300.0		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		
8	SM 4500-S (2-) D		
9	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 15, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 624832

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2439679										
QC1205425631	624831001	DUP									
Chloride		0.693		0.685	mg/L	1.22	^	(+/-0.200)	JLD1	06/06/23	17:04
Fluoride		0.113		0.114	mg/L	1.32	^	(+/-0.100)			
Nitrate-N	U	ND	U	ND	mg/L	N/A				06/06/23	22:54
Sulfate		62.1		61.9	mg/L	0.445		(0%-20%)		06/07/23	00:30
QC1205425630	LCS										
Chloride	5.00			4.83	mg/L			96.5 (90%-110%)		06/06/23	18:39
Fluoride	2.50			2.49	mg/L			99.6 (90%-110%)			
Nitrate-N	2.50			2.43	mg/L			97.2 (90%-110%)			
Sulfate	10.0			9.86	mg/L			98.6 (90%-110%)			
QC1205425629	MB										
Chloride			U	ND	mg/L					06/06/23	18:07
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205425632	624831001	PS									
Chloride	5.00	0.693		5.45	mg/L			95.2 (90%-110%)		06/06/23	17:36

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 624832

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2439679										
Fluoride	2.50	0.113		2.54	mg/L		97.1	(90%-110%)	JLD1	06/06/23	17:36
Nitrate-N	2.50	U	ND	2.22	mg/L		88.7*	(90%-110%)		06/06/23	23:26
Sulfate	10.0	6.21		16.1	mg/L		98.6	(90%-110%)		06/07/23	01:02
Metals Analysis - ICPMS											
Batch	2439851										
QC1205425805	LCS										
Boron	0.100			0.112	mg/L		112	(80%-120%)	BAJ	06/13/23	11:45
Calcium	2.00			2.15	mg/L		107	(80%-120%)			
Iron	2.00			2.06	mg/L		103	(80%-120%)		06/12/23	15:03
Magnesium	2.00			2.22	mg/L		111	(80%-120%)			
Manganese	0.0500			0.0521	mg/L		104	(80%-120%)			
Potassium	2.00			2.07	mg/L		104	(80%-120%)			
Selenium	0.0500			0.0499	mg/L		99.7	(80%-120%)			
Sodium	2.00			2.18	mg/L		109	(80%-120%)			
QC1205425804	MB										
Boron			U	ND	mg/L					06/13/23	11:43
Calcium			U	ND	mg/L						
Iron			U	ND	mg/L					06/12/23	14:59

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QC Summary

Workorder: 624832

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2439851										
Magnesium			U	ND	mg/L				BAJ	06/12/23	14:59
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
QC1205425806 624832001 MS											
Boron	0.100	1.24		1.38	mg/L		N/A	(75%-125%)		06/13/23	11:48
Calcium	2.00	70.1		73.0	mg/L		N/A	(75%-125%)			
Iron	2.00	1.38		3.47	mg/L		104	(75%-125%)		06/12/23	15:10
Magnesium	2.00	37.9		41.8	mg/L		N/A	(75%-125%)			
Manganese	0.0500	0.602		0.681	mg/L		N/A	(75%-125%)			
Potassium	2.00	5.65		8.00	mg/L		117	(75%-125%)			
Selenium	0.0500	0.0237		0.0747	mg/L		102	(75%-125%)			
Sodium	2.00	28.8		32.5	mg/L		N/A	(75%-125%)			
QC1205425807 624832001 MSD											
Boron	0.100	1.24		1.34	mg/L	2.8	N/A	(0%-20%)		06/13/23	11:50
Calcium	2.00	70.1		71.0	mg/L	2.84	N/A	(0%-20%)			

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QC Summary

Workorder: 624832

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2439851										
Iron	2.00	1.38		3.22	mg/L	7.5	91.9	(0%-20%)	BAJ	06/12/23	15:14
Magnesium	2.00	37.9		39.5	mg/L	5.72	N/A	(0%-20%)			
Manganese	0.0500	0.602		0.640	mg/L	6.32	N/A	(0%-20%)			
Potassium	2.00	5.65		7.63	mg/L	4.73	98.9	(0%-20%)			
Selenium	0.0500	0.0237		0.0690	mg/L	7.9	90.6	(0%-20%)			
Sodium	2.00	28.8		30.2	mg/L	7.32	N/A	(0%-20%)			
QC1205425808 624832001 SDILT											
Boron		124		25.1	ug/L	1.01		(0%-20%)		06/13/23	11:52
Calcium		7010		1440	ug/L	2.91		(0%-20%)			
Iron		1380		287	ug/L	3.81		(0%-20%)		06/12/23	15:21
Magnesium		37900		7290	ug/L	3.77		(0%-20%)			
Manganese		602		124	ug/L	3.44		(0%-20%)			
Potassium		5650		1130	ug/L	.271		(0%-20%)			
Selenium		23.7	J	4.40	ug/L	7.28		(0%-20%)			
Sodium		28800		5590	ug/L	2.96		(0%-20%)			

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QC Summary

Workorder: 624832

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2440211										
QC1205426454	624719002	DUP									
Total Dissolved Solids		562		556	mg/L	1.07		(0%-5%)	CH6	06/07/23	14:47
QC1205426452	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/07/23	14:47
QC1205426451	MB										
Total Dissolved Solids			U	ND	mg/L					06/07/23	14:47
Spectrometric Analysis											
Batch	2440523										
QC1205427032	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	06/09/23	17:18
QC1205427031	MB										
Total Sulfide			U	ND	mg/L					06/09/23	17:18
QC1205427035	624713005	PS									
Total Sulfide	0.400	U	ND	0.406	mg/L		101	(75%-125%)		06/09/23	17:18
QC1205427036	624713005	PSD									
Total Sulfide	0.400	U	ND	0.403	mg/L	0.552	101	(0%-15%)		06/09/23	17:18
Titration and Ion Analysis											
Batch	2440524										
QC1205427040	624949002	DUP									
Alkalinity, Total as CaCO3		82.2		82.3	mg/L	0.122		(0%-20%)	JW2	06/08/23	10:41
Carbonate alkalinity (CaCO3)			U	ND	J	0.800	200				
QC1205427039	LCS										
Alkalinity, Total as CaCO3	50.0			51.4	mg/L		103	(90%-110%)		06/08/23	10:20

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QC Summary

Workorder: 624832

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2440524										
QC1205427041	624949002	MS									
Alkalinity, Total as CaCO3	50.0	82.2		135	mg/L		105	(80%-120%)	JW2	06/08/23	10:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

Workorder: 624832

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: June 14, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 624831

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2439679										
QC1205425631	624831001	DUP									
Chloride		0.693		0.685	mg/L	1.22	^	(+/-0.200)	JLD1	06/06/23	17:04
Fluoride		0.113		0.114	mg/L	1.32	^	(+/-0.100)			
Nitrate-N	U	ND	U	ND	mg/L	N/A				06/06/23	22:54
Sulfate		62.1		61.9	mg/L	0.445		(0%-20%)		06/07/23	00:30
QC1205425630	LCS										
Chloride	5.00			4.83	mg/L			96.5 (90%-110%)		06/06/23	18:39
Fluoride	2.50			2.49	mg/L			99.6 (90%-110%)			
Nitrate-N	2.50			2.43	mg/L			97.2 (90%-110%)			
Sulfate	10.0			9.86	mg/L			98.6 (90%-110%)			
QC1205425629	MB										
Chloride			U	ND	mg/L					06/06/23	18:07
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205425632	624831001	PS									
Chloride	5.00	0.693		5.45	mg/L			95.2 (90%-110%)		06/06/23	17:36

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QC Summary

Workorder: 624831

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2439679										
Fluoride	2.50	0.113		2.54	mg/L		97.1	(90%-110%)	JLD1	06/06/23	17:36
Nitrate-N	2.50	U	ND	2.22	mg/L		88.7*	(90%-110%)		06/06/23	23:26
Sulfate	10.0	6.21		16.1	mg/L		98.6	(90%-110%)		06/07/23	01:02
Metals Analysis - ICPMS											
Batch	2439741										
QC1205425680	LCS										
Boron	0.100			0.0972	mg/L		97.2	(80%-120%)	PRB	06/12/23	20:08
Calcium	2.00			2.07	mg/L		104	(80%-120%)			
Cobalt	0.0500			0.0503	mg/L		101	(80%-120%)			
Iron	2.00			1.97	mg/L		98.6	(80%-120%)			
Magnesium	2.00			1.96	mg/L		97.8	(80%-120%)			
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Potassium	2.00			2.02	mg/L		101	(80%-120%)			
Sodium	2.00			1.98	mg/L		99.2	(80%-120%)			
QC1205425679	MB										
Boron			U	ND	mg/L					06/12/23	20:04
Calcium			U	ND	mg/L						
Cobalt			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2439741										
Iron			U	ND	mg/L				PRB	06/12/23	20:04
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Potassium			U	ND	mg/L						
Sodium			U	ND	mg/L						
QC1205425681 624831001 MS											
Boron	0.100	0.366		0.478	mg/L		112	(75%-125%)		06/12/23	20:15
Calcium	2.00	36.8		40.0	mg/L		N/A	(75%-125%)		06/12/23	20:48
Cobalt	0.0500	J 0.000852		0.0543	mg/L		107	(75%-125%)			
Iron	2.00	21.1		24.0	mg/L		N/A	(75%-125%)			
Magnesium	2.00	5.14		7.32	mg/L		109	(75%-125%)			
Manganese	0.0500	0.751		0.834	mg/L		N/A	(75%-125%)			
Potassium	2.00	11.6		14.3	mg/L		N/A	(75%-125%)			
Sodium	2.00	2.97		5.14	mg/L		108	(75%-125%)			
QC1205425682 624831001 MSD											
Boron	0.100	0.366		0.472	mg/L	1.29	106	(0%-20%)		06/12/23	20:19
Calcium	2.00	36.8		38.0	mg/L	5.01	N/A	(0%-20%)		06/12/23	20:51

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2439741										
Cobalt	0.0500	J	0.000852	0.0515	mg/L	5.27	101	(0%-20%)	PRB	06/12/23	20:51
Iron	2.00		21.1	22.9	mg/L	4.47	N/A	(0%-20%)			
Magnesium	2.00		5.14	7.02	mg/L	4.14	94.3	(0%-20%)			
Manganese	0.0500		0.751	0.793	mg/L	5.06	N/A	(0%-20%)			
Potassium	2.00		11.6	13.7	mg/L	4.08	N/A	(0%-20%)			
Sodium	2.00		2.97	4.87	mg/L	5.36	94.8	(0%-20%)			
QC1205425683 624831001 SDILT											
Boron			73.2	15.6	ug/L	6.23		(0%-20%)		06/12/23	20:26
Calcium			36800	7010	ug/L	4.65		(0%-20%)		06/12/23	20:59
Cobalt		J	0.852	U	ug/L	N/A		(0%-20%)			
Iron			21100	4210	ug/L	.207		(0%-20%)			
Magnesium			5140	1060	ug/L	3.08		(0%-20%)			
Manganese			751	152	ug/L	1.08		(0%-20%)			
Potassium			11600	2200	ug/L	5.2		(0%-20%)			
Sodium			2970	591	ug/L	.607		(0%-20%)			

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QC Summary

Workorder: 624831

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2440211										
QC1205426456	624949002	DUP									
Total Dissolved Solids			134	138	mg/L	2.94		(0%-5%)	CH6	06/07/23	14:47
QC1205426452	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/07/23	14:47
QC1205426451	MB										
Total Dissolved Solids			U	ND	mg/L					06/07/23	14:47
Spectrometric Analysis											
Batch	2440523										
QC1205427032	LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	06/09/23	17:18
QC1205427031	MB										
Total Sulfide			U	ND	mg/L					06/09/23	17:18
QC1205427035	624713005	PS									
Total Sulfide	0.400	U	ND	0.406	mg/L		101	(75%-125%)		06/09/23	17:18
QC1205427036	624713005	PSD									
Total Sulfide	0.400	U	ND	0.403	mg/L	0.552	101	(0%-15%)		06/09/23	17:18
Titration and Ion Analysis											
Batch	2440524										
QC1205427040	624949002	DUP									
Alkalinity, Total as CaCO3			82.2	82.3	mg/L	0.122		(0%-20%)	JW2	06/08/23	10:41
Carbonate alkalinity (CaCO3)		U	ND	J	0.800	mg/L	200				
QC1205427039	LCS										
Alkalinity, Total as CaCO3	50.0			51.4	mg/L		103	(90%-110%)		06/08/23	10:20

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2440524										
QC1205427041	624949002	MS									
Alkalinity, Total as CaCO3	50.0	82.2		135	mg/L		105	(80%-120%)	JW2	06/08/23	10:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 624831**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2439741

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2439740

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205425679	Method Blank (MB)ICP-MS
1205425680	Laboratory Control Sample (LCS)
1205425683	624831001(BRA-IW-B-5L) Serial Dilution (SD)
1205425681	624831001(BRA-IW-B-5S) Matrix Spike (MS)
1205425682	624831001(BRA-IW-B-5SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte

concentrations were within the linear calibration range of the instrument.

Analyte	624831		
	001	002	003
Boron	5X	25X	25X
Calcium	1X	20X	20X
Sodium	1X	1X	20X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 31

Analytical Batch: 2439679

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205425629	Method Blank (MB)
1205425630	Laboratory Control Sample (LCS)
1205425631	624831001(BRA-IW-B-5) Sample Duplicate (DUP)
1205425632	624831001(BRA-IW-B-5) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205425632 (BRA-IW-B-5PS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS), 624831001 (BRA-IW-B-5), 624831002 (BRA-IW-B-4) and 624831003 (BRA-IW-B-3) were diluted because target analyte

concentrations exceeded the calibration range. The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS), 624831001 (BRA-IW-B-5) and 624831002 (BRA-IW-B-4) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	624831		
	001	002	003
Chloride	1X	5X	40X
Nitrate-N	2X	5X	1X
Sulfate	10X	40X	40X

Sample Re-analysis

Sample 624831003 (BRA-IW-B-3) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations

Samples 1205425631 (BRA-IW-B-5DUP), 624831001 (BRA-IW-B-5) and 624831003 (BRA-IW-B-3) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2440211

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205426451	Method Blank (MB)
1205426452	Laboratory Control Sample (LCS)
1205426456	624949002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 624831003 (BRA-IW-B-3).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2440523

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205427031	Method Blank (MB)
1205427032	Laboratory Control Sample (LCS)
1205427035	624713005(NonSDG) Post Spike (PS)
1205427036	624713005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2440524

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205427039	Laboratory Control Sample (LCS)
1205427040	624949002(NonSDG) Sample Duplicate (DUP)
1205427041	624949002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

Meets GEL's limits.

Sample	Analyte	Value
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1205427040 (Non SDG 624949002DUP)	Carbonate alkalinity (CaCO ₃)	28.6* (0%-20%)
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Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 624832**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2439851

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2439850

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624832001	BRA-PZ-74I
1205425804	Method Blank (MB)ICP-MS
1205425805	Laboratory Control Sample (LCS)
1205425808	624832001(BRA-PZ-74IL) Serial Dilution (SD)
1205425806	624832001(BRA-PZ-74IS) Matrix Spike (MS)
1205425807	624832001(BRA-PZ-74ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	624832
	001
Boron	10X
Calcium	10X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 31

Analytical Batch: 2439679

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624832001	BRA-PZ-74I
1205425629	Method Blank (MB)
1205425630	Laboratory Control Sample (LCS)
1205425631	624831001(BRA-IW-B-5) Sample Duplicate (DUP)
1205425632	624831001(BRA-IW-B-5) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205425632 (BRA-IW-B-5PS)	88.7* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS) and 624832001 (BRA-PZ-74I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205425631 (BRA-IW-B-5DUP) and 1205425632 (BRA-IW-B-5PS) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	624832
	001
Sulfate	40X

Miscellaneous Information

Manual Integrations

Sample 1205425631 (BRA-IW-B-5DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2440211

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624832001	BRA-PZ-74I
1205426451	Method Blank (MB)
1205426452	Laboratory Control Sample (LCS)
1205426454	624719002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205426454 (Non SDG 624719002DUP).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2440523

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624832001	BRA-PZ-74I
1205427031	Method Blank (MB)
1205427032	Laboratory Control Sample (LCS)
1205427035	624713005(NonSDG) Post Spike (PS)
1205427036	624713005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration,

continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2440524

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
624832001	BRA-PZ-74I
1205427039	Laboratory Control Sample (LCS)
1205427040	624949002(NonSDG) Sample Duplicate (DUP)
1205427041	624949002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

Meets GEL's limits.

Sample	Analyte	Value
1205427040 (Non SDG 624949002DUP)	Carbonate alkalinity (CaCO ₃)	28.6* (0%-20%)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

GEL Laboratories LLC **624831**
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**
 Phone # 404-506-7116
 Fax # _____

Client Name: GA Power
 Project/Site Name: Plant Branch Ash Ponds - BCD
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: *J. Brasfield* ACC
 Send Results To: SCS & Geosyntec Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm) (hhmm))	QC Code (3)	Field Filtered (b)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023SI
						Radioactive (if yes, please supply isotopic info)	Possible Hazards (7) Known or		Metals *	EPA 6020	Sulfide	SH	
BRA-IW-B-5	06/05/23	1105	G	N	WG			3	✓	✓			field pH = 5.81 field ferrous iron = 6.0mg/L
BRA-IW-B-4	06/05/23	1315	G	N	WG			3	✓	✓			field pH = 5.79 field ferrous iron = 2.0mg/L
BRA-IW-B-3	06/05/23	1510	G	N	WG			3	✓	✓			field pH = 8.40 field ferrous iron = 0.0mg/L

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	6/6/23	0824	<i>[Signature]</i>	6/6/23	8:39
<i>[Signature]</i>	6/6/23	1:14	<i>[Signature]</i>	6/6/23	13:00

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Co,Fe,Mg,Mn,K,Na

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, C = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

Characteristic Hazards	Listed Waste	Other
FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

TSCA Regulated
 PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: <u>Eupcc</u>		SDG/AR/COC/Work Order: <u>624831</u>		<u>FT</u>	
Received By: <u>Thyasia Tatum</u>		Date Received: <u>10/10/23</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier <u>Other</u>			
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>6</u> CPM / mR/Hr Classified as: <u>Rad 1</u> <u>Rad 2</u> <u>Rad 3</u>	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>2C</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-20</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials MTB Date 10/18/23 Page 1 of 1

GEL Work Order Number: _____
GEL Project Manager: *Erin Trent*

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive (if yes, please supply isotopic info)	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)		Comments
								Total number of containers	NI	
BRA-PZ-741	06/06/23	0940	G	N	WG			<input checked="" type="checkbox"/> C, F, SO ₄ , TDS, NO ₃ <input checked="" type="checkbox"/> EPA 300, SM 2540C <input checked="" type="checkbox"/> Total Carb. & Bicarb Alk <input checked="" type="checkbox"/> Metals * <input checked="" type="checkbox"/> EPA 6020, 7470 <input checked="" type="checkbox"/> Sulfide <input checked="" type="checkbox"/> SM 4500	Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-2023S1 field pH = 5.83 field ferrous iron = 1.5 mg/L	

Chain of Custody Signatures			TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: _____ (Subject to Surcharge)		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	6/4/23	1539	<i>[Signature]</i>		

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Se, Fe, Mg, Mn, K, Na, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____
 For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other
RCRA Metals As = Arsenic Hg = Mercury Ba = Barium Se = Selenium Cd = Cadmium Ag = Silver Cr = Chromium MR = Misc. RCRA metals Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

ET

Client: <u>GPRC</u>		SDG/AR/COC/Work Order: <u>624-832</u>	
Received By: <u>QG</u>		Date Received: <u>6/6/23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other	
		<u>mla</u>	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	
E) Did the RSO identify possible hazards?			
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
		COC notation or radioactive stickers on containers equal client designation.	
		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/hr Classified as: <u>Rad 1</u> <u>Rad 2</u> <u>Rad 3</u>	
		COC notation or hazard labels on containers equal client designation.	
		If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	No
Comments/Qualifiers (Required for Non-Conforming Items)			
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials AS Date 6/7/23 Page 1 of 1

List of current GEL Certifications as of 15 June 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 14 June 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Low-Flow Test Report:

Test Date / Time: 6/5/2023 2:05:04 PM

Project: Plant Branch Ash Ponds

Operator Name: Jordan Berisford

Location Name: IW-B-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.06 ft Total Depth: 46.06 ft Initial Depth to Water: 13.27 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 16.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sunny, sample time-1510. Fe2+= 0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 2:05 PM	00:00	8.02 pH	25.58 °C	832.77 µS/cm	0.63 mg/L	7.51 NTU	88.7 mV	13.27 ft	250.00 ml/min
6/5/2023 2:10 PM	05:00	8.36 pH	21.20 °C	897.81 µS/cm	0.21 mg/L	7.49 NTU	87.9 mV	13.80 ft	250.00 ml/min
6/5/2023 2:15 PM	10:00	8.42 pH	20.99 °C	895.85 µS/cm	0.21 mg/L	6.17 NTU	87.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:20 PM	15:00	8.44 pH	20.97 °C	898.84 µS/cm	0.23 mg/L	5.98 NTU	86.6 mV	13.80 ft	250.00 ml/min
6/5/2023 2:25 PM	20:00	8.45 pH	20.95 °C	892.59 µS/cm	0.19 mg/L	6.10 NTU	86.0 mV	13.80 ft	250.00 ml/min
6/5/2023 2:30 PM	25:00	8.46 pH	20.84 °C	889.86 µS/cm	0.19 mg/L	6.27 NTU	85.5 mV	13.80 ft	250.00 ml/min
6/5/2023 2:35 PM	30:00	8.44 pH	21.19 °C	896.82 µS/cm	0.17 mg/L	5.76 NTU	84.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:40 PM	35:00	8.44 pH	21.38 °C	890.34 µS/cm	0.16 mg/L	5.55 NTU	84.5 mV	13.80 ft	250.00 ml/min
6/5/2023 2:45 PM	40:00	8.43 pH	21.38 °C	894.11 µS/cm	0.15 mg/L	5.38 NTU	83.9 mV	13.80 ft	250.00 ml/min
6/5/2023 2:50 PM	45:00	8.42 pH	21.28 °C	888.07 µS/cm	0.15 mg/L	5.59 NTU	83.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:55 PM	50:00	8.42 pH	21.37 °C	889.06 µS/cm	0.17 mg/L	5.42 NTU	83.1 mV	13.80 ft	250.00 ml/min
6/5/2023 3:00 PM	55:00	8.41 pH	21.44 °C	885.68 µS/cm	0.15 mg/L	5.80 NTU	82.7 mV	13.80 ft	250.00 ml/min
6/5/2023 3:05 PM	01:00:00	8.41 pH	21.29 °C	884.04 µS/cm	0.16 mg/L	5.28 NTU	82.3 mV	13.80 ft	250.00 ml/min
6/5/2023 3:10 PM	01:05:00	8.40 pH	21.34 °C	891.16 µS/cm	0.17 mg/L	4.29 NTU	81.8 mV	13.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/5/2023 12:30:21 PM

Project: Plant Branch Ash Ponds

Operator Name: Jordan Berisford

Location Name: IW-B-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.4 ft Total Depth: 37.4 ft Initial Depth to Water: 20.2 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 10.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sunny, sample time 1315, Fe2+=2.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 12:30 PM	00:00	5.81 pH	31.39 °C	527.43 µS/cm	2.36 mg/L	5.11 NTU	78.8 mV	20.20 ft	225.00 ml/min
6/5/2023 12:35 PM	05:00	5.78 pH	23.74 °C	616.74 µS/cm	0.32 mg/L	2.59 NTU	72.7 mV	20.30 ft	225.00 ml/min
6/5/2023 12:40 PM	10:00	5.78 pH	23.75 °C	613.81 µS/cm	0.22 mg/L	2.42 NTU	71.5 mV	20.30 ft	225.00 ml/min
6/5/2023 12:45 PM	15:00	5.77 pH	23.06 °C	620.46 µS/cm	0.18 mg/L	1.73 NTU	72.1 mV	20.30 ft	225.00 ml/min
6/5/2023 12:50 PM	20:00	5.77 pH	22.89 °C	628.65 µS/cm	0.18 mg/L	1.59 NTU	71.8 mV	20.30 ft	225.00 ml/min
6/5/2023 12:55 PM	25:00	5.79 pH	23.03 °C	633.87 µS/cm	0.15 mg/L	1.29 NTU	71.2 mV	20.30 ft	225.00 ml/min
6/5/2023 1:00 PM	30:00	5.79 pH	23.12 °C	635.88 µS/cm	0.14 mg/L	2.07 NTU	70.8 mV	20.30 ft	225.00 ml/min
6/5/2023 1:05 PM	35:00	5.80 pH	23.07 °C	631.49 µS/cm	0.13 mg/L	3.22 NTU	70.8 mV	20.30 ft	225.00 ml/min
6/5/2023 1:10 PM	40:00	5.80 pH	23.07 °C	638.39 µS/cm	0.13 mg/L	2.06 NTU	70.6 mV	20.30 ft	225.00 ml/min
6/5/2023 1:15 PM	45:00	5.79 pH	23.11 °C	633.56 µS/cm	0.12 mg/L	0.70 NTU	70.9 mV	20.30 ft	225.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 6/5/2023 9:50:13 AM

Project: Plant Branch Ash Ponds

Operator Name: Jordan Berisford

Location Name: IW-B-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.47 ft Total Depth: 32.47 ft Initial Depth to Water: 24.73 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 16.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sunny, sample time -1105

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 9:50 AM	00:00	5.63 pH	19.99 °C	241.37 µS/cm	0.37 mg/L	16.00 NTU	94.5 mV	24.73 ft	225.00 ml/min
6/5/2023 9:55 AM	05:00	5.68 pH	20.04 °C	246.72 µS/cm	0.25 mg/L	15.00 NTU	87.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:00 AM	10:00	5.89 pH	20.53 °C	245.72 µS/cm	5.95 mg/L	15.00 NTU	73.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:05 AM	15:00	6.11 pH	21.66 °C	251.75 µS/cm	8.28 mg/L	15.00 NTU	36.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:10 AM	20:00	6.03 pH	22.63 °C	237.20 µS/cm	5.34 mg/L	14.00 NTU	9.9 mV	24.90 ft	225.00 ml/min
6/5/2023 10:15 AM	25:00	5.86 pH	22.31 °C	232.17 µS/cm	2.86 mg/L	15.00 NTU	34.3 mV	24.90 ft	225.00 ml/min
6/5/2023 10:20 AM	30:00	5.77 pH	20.57 °C	243.94 µS/cm	0.29 mg/L	13.00 NTU	44.1 mV	24.90 ft	225.00 ml/min
6/5/2023 10:25 AM	35:00	5.76 pH	20.54 °C	247.56 µS/cm	0.21 mg/L	12.00 NTU	41.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:30 AM	40:00	5.78 pH	20.50 °C	246.42 µS/cm	0.20 mg/L	9.72 NTU	38.9 mV	24.90 ft	225.00 ml/min
6/5/2023 10:35 AM	45:00	5.78 pH	20.56 °C	248.12 µS/cm	0.18 mg/L	7.17 NTU	36.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:40 AM	50:00	5.79 pH	20.77 °C	245.29 µS/cm	0.17 mg/L	6.58 NTU	34.2 mV	24.90 ft	225.00 ml/min
6/5/2023 10:45 AM	55:00	5.79 pH	20.75 °C	245.77 µS/cm	0.17 mg/L	6.94 NTU	34.1 mV	24.90 ft	225.00 ml/min
6/5/2023 10:50 AM	01:00:00	5.79 pH	20.97 °C	246.83 µS/cm	0.17 mg/L	6.22 NTU	32.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:55 AM	01:05:00	5.80 pH	20.90 °C	248.50 µS/cm	0.17 mg/L	5.92 NTU	31.0 mV	24.90 ft	225.00 ml/min
6/5/2023 11:00 AM	01:10:00	5.80 pH	20.99 °C	246.70 µS/cm	0.17 mg/L	5.30 NTU	30.6 mV	24.90 ft	225.00 ml/min

6/5/2023 11:05 AM	01:15:00	5.81 pH	21.06 °C	245.79 µS/cm	0.16 mg/L	4.00 NTU	29.1 mV	24.90 ft	225.00 ml/min
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Samples

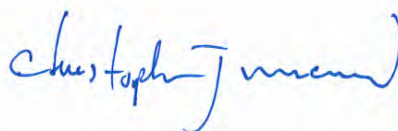
Sample ID:	Description:
------------	--------------

Resolute Environmental & Water Resources

Sample Delivery Group: L968437
Samples Received: 02/07/2018
Project Number:
Description: Plant Branch Investigation

Report To: Brian Steele
1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188




Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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EQBL020518 L968437-03	7	
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SAMPLE SUMMARY



MW-C1-06 L968437-01 GW

Collected by Robert Mull
 Collected date/time 02/05/18 14:00
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 18:44	TRB

1 Cp

2 Tc

3 Ss

FBL020518 L968437-02 GW

Collected by Robert Mull
 Collected date/time 02/05/18 15:50
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:10	TRB

4 Cn

5 Sr

EQBL020518 L968437-03 GW

Collected by Robert Mull
 Collected date/time 02/05/18 15:55
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:13	TRB

6 Qc

7 Gl

MW-C2-02 L968437-04 GW

Collected by Robert Mull
 Collected date/time 02/06/18 13:52
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:16	TRB

8 Al

9 Sc

MW-DUP-1 L968437-05 GW

Collected by Robert Mull
 Collected date/time 02/06/18 00:00
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:19	TRB

FBL020618 L968437-06 GW

Collected by Robert Mull
 Collected date/time 02/06/18 10:25
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:21	TRB

EQBL020618 L968437-07 GW

Collected by Robert Mull
 Collected date/time 02/06/18 10:30
 Received date/time 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:24	TRB



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0130		0.0100	1	02/08/2018 18:44	WG1071303
Cadmium	0.0108		0.00200	1	02/08/2018 18:44	WG1071303
Lead	0.00624		0.00500	1	02/08/2018 18:44	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:10	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:10	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:10	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:13	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:13	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:13	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Lead	0.0353		0.00500	1	02/08/2018 19:16	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Lead	0.0376		0.00500	1	02/08/2018 19:19	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:21	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:21	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:21	WG1071303

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:24	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:24	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:24	WG1071303

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3285104-1 02/08/18 18:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0065	0.0100
Cadmium	U		0.0007	0.00200
Lead	U		0.0019	0.00500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3285104-2 02/08/18 18:39 • (LCSD) R3285104-3 02/08/18 18:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.985	0.988	98.5	98.8	80-120			0.257	20
Cadmium	1.00	0.966	0.968	96.6	96.8	80-120			0.194	20
Lead	1.00	1.00	1.00	100	100	80-120			0.157	20

L968437-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L968437-01 02/08/18 18:44 • (MS) R3285104-5 02/08/18 18:49 • (MSD) R3285104-6 02/08/18 18:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.0130	0.886	0.893	87.3	88	1	75-125			0.819	20
Cadmium	1.00	0.0108	0.879	0.885	86.8	87.4	1	75-125			0.688	20
Lead	1.00	0.00624	1.02	1.02	101	101	1	75-125			0.42	20



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ^{1,4}	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

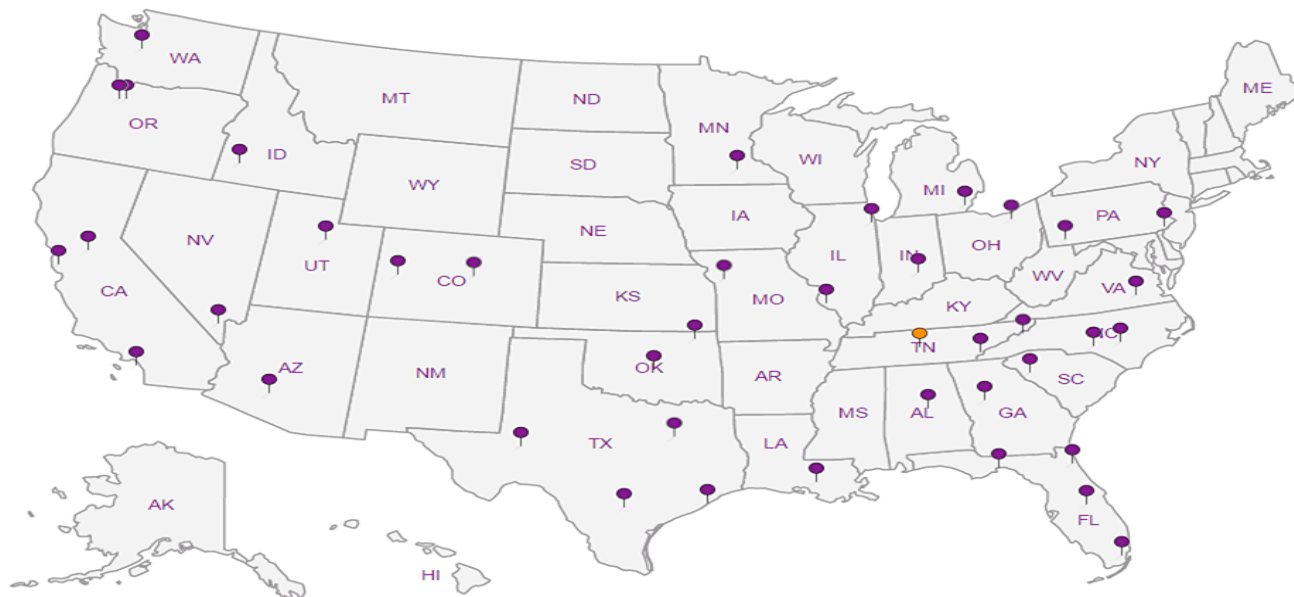
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Resolute Environmental & Water Resources
1003 Weatherstone Parkway

Billing Information:
Brian Steele
1003 Weatherstone Pkwy, Ste 300
Woodstock, GA 30188

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 763457

G225

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via: 11-7-176

Report to: Brian Steele
Email To: Brian.Steele@resoluteenv.com
Steele.Wilson@resoluteenv.com

Project Description: Plant Branch Investigation
City/State Collected: Milledgeville, GA

Phone: 404-358-8469
Fax:
Client Project #
Lab Project # RESENVWGA-MILLEDGE

Collected by (print): Robert Mull
Site/Facility ID #
P.O. #

Collected by (signature): [Signature]
Immediately Packed on Ice N ___ Y
Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote #
Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Liters
-----------	-----------	----------	-------	------	------	---------------

MW-C1-06 (MS/MSD)	Grab	GW		2/5/18	1400	3
FBLO20518	Grab	OT		2/5/18	1550	1
EQBLO20518	Grab	OT		2/5/18	1555	1
MW-C2-02	Grab	GW		2/6/18	1352	1
MW-Dup-1	Grab	GW		2/6/18		1
FBLO20618	Grab	OT		2/6/18	1025	1
EQBLO20618	Grab	OT		2/6/18	1030	1

Total As. C. Pb 250ML HDPE - HND3
Total Pb 250ML HDPE - HND3

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other DI Water

Remarks:
pH _____ Temp _____
Flow _____ Other _____
Samples returned via:
___ UPS ___ FedEx ___ Courier _____
Tracking # 4269 9201 5396

Sample Receipt Checklist
COC Seal Present/Intact: ___ NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
IF Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by: (Signature) [Signature]	Date: 2/6/18	Time: 1540	Received by: (Signature)	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 83.9 °C Bottles Received: 9-BR
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: 02-07-18 Time: 0845

If preservation required by Login: Date/Time
Hold:
Condition: NCF 100

Product Name: Low-Flow System

Date: 2018-03-27 15:31:29

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID DPT-01
Well diameter 1 in
Well Total Depth 20 ft
Screen Length 5 ft
Depth to Water 14.95 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 120 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Stabilization									
Last 5	15:21:22	120.09	31.92	4.18	4241.33	--	--	1.16	206.80
Last 5	15:23:22	240.03	30.95	4.33	4291.51	--	--	1.82	195.52
Last 5	15:25:22	360.04	30.11	4.34	4332.35	--	--	3.81	191.88
Last 5	15:27:22	480.03	29.52	4.34	4315.63	--	--	4.29	190.55
Last 5	15:29:22	600.04	28.12	4.38	4314.10	--	--	5.04	188.43
Variance 0			-0.84	0.01	40.84			1.99	-3.64
Variance 1			-0.59	-0.00	-16.71			0.49	-1.33
Variance 2			-1.40	0.05	-1.53			0.74	-2.12

Notes

Temp well went dry while purging

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 09:26:40

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 20 ft

Pump placement from TOC 15 ft

Well Information:

Well ID DPT-02
Well diameter 1 in
Well Total Depth 15 ft
Screen Length 5 ft
Depth to Water 8.62 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	09:21:52	540.04	22.66	3.91	2126.12	--	--	1.24	151.59
Last 5	09:22:52	600.04	22.53	3.97	2150.78	--	--	1.17	152.89
Last 5	09:23:52	660.04	22.44	4.02	2170.18	--	--	1.56	154.01
Last 5	09:24:52	720.04	22.30	4.01	2180.77	--	--	2.09	155.97
Last 5	09:25:52	780.04	22.28	4.01	2172.98	--	--	2.34	158.43
Variance 0			-0.09	0.04	19.40			0.39	1.12
Variance 1			-0.14	-0.00	10.59			0.53	1.96
Variance 2			-0.02	0.00	-7.79			0.25	2.46

Notes

Grab Samples

DPT-04

Report Created: 2018-03-26 15:32:51
 Site: Plant Branch
 GPS:
 Log Created: 2018-03-26 15:31:52
 Number Readings: 5
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 476554
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/26/2018 15:31	1018.5	16.5	7.46	76.9	3.91	162	4288.1	5.15	2.8	233	1.001	3	0	0.001	14.3
3/26/2018 15:32	1018.4	16.64	5.42	56.2	3.92	161	4202.9	5.01	2.7	238	1.001	3	0.01	0.004	14.3
3/26/2018 15:32	1018.4	16.71	4.19	43.6	3.96	160.5	4194.1	4.99	2.7	238	1.001	3	-0.02	-0.009	14.3
3/26/2018 15:32	1018.5	16.91	3.32	34.6	3.99	160.4	4180.7	4.96	2.7	239	1.001	3	0.01	0.002	14.3
3/26/2018 15:32	1018.6	17.12	2.73	28.5	4.02	160.4	4170.8	4.92	2.7	240	1.001	3	-0.02	-0.009	14.3

DPT-05

Report Created: 2018-03-27 10:04:22
 Site: Plant Branch
 GPS:
 Log Created: 2018-03-27 10:03:27
 Number Readings: 6
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 476554
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/27/2018 10:03	1019.7	13.49	7.27	69.9	4.41	165.2	1918.2	2.45	1.3	521	1	2	0	0	12.3
3/27/2018 10:03	1019.7	13.5	7.27	69.9	4.4	157.4	1908.8	2.45	1.3	524	1	2	0	0.001	12.3
3/27/2018 10:03	1019.6	13.58	7.06	67.9	4.39	152.7	1907.5	2.44	1.3	524	1	2	0.01	0.005	12.3
3/27/2018 10:03	1019.6	13.71	6.93	66.8	4.39	149	1907.7	2.44	1.3	524	1	2	0.02	0.008	12.3
3/27/2018 10:04	1019.7	13.85	6.83	66	4.39	146.3	1910.3	2.43	1.3	523	1	2	0.06	0.026	12.3
3/27/2018 10:04	1019.6	13.98	6.76	65.5	4.39	144.8	1911.7	2.43	1.3	523	1	2	0.02	0.008	12.3

Report Created: 2018-03-27 11:16:15

DPT-06

Site: Plant Branch

GPS:

Log Created: 2018-03-27 11:15:16

Number Readings: 6

Battery Type: SmarTROLLâ„¢ Battery Pack

Battery SN: 476554

Device Type: SmarTROLLâ„¢ MP

Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (μ S/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm ³)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/27/2018 11:15	1019.7	13.49	10.6	100.2	5.1	141.4	2359.5	3.09	1.6	424	1.001	2	-0.02	-0.011	12.4
3/27/2018 11:15	1019.7	13.99	5.86	56.7	5.28	134.7	2315.4	2.95	1.5	432	1	2	0	-0.001	12.4
3/27/2018 11:15	1019.7	14.12	4.09	39.8	5.39	130.2	2318.5	2.93	1.5	431	1	2	-0.03	-0.015	12.4
3/27/2018 11:15	1019.7	14.3	2.93	28.6	5.48	125.6	2322.4	2.93	1.5	431	1	2	-0.03	-0.013	12.4
3/27/2018 11:15	1019.7	14.58	2.16	21.2	5.55	122.4	2321.5	2.91	1.5	431	1	2	-0.01	-0.003	12.4
3/27/2018 11:16	1019.8	14.87	1.65	16.3	5.6	120.1	2319.6	2.89	1.5	431	1	2	0.01	0.003	12.4

Product Name: Low-Flow System

Date: 2018-03-27 13:55:13

Project Information:

Operator Name Robert Mill
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 14 ft

Pump placement from TOC 10 ft

Well Information:

Well ID DPT-07
Well diameter 1 in
Well Total Depth 10 ft
Screen Length 5 ft
Depth to Water 6.40 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.1524879 L
Calculated Sample Rate 120 sec
Stabilization Drawdown 0 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 1000%
Last 5	13:46:48	360.04	19.94	3.97	1320.95	--	--	0.49	130.07
Last 5	13:48:49	481.03	19.94	3.98	1333.26	--	--	0.59	130.69
Last 5	13:50:49	601.04	19.81	3.97	1359.29	--	--	0.71	132.70
Last 5	13:52:49	721.04	19.50	3.97	1352.44	--	--	0.71	134.12
Last 5	13:54:49	841.05	19.27	3.93	1353.65	--	--	0.69	137.31
Variance 0			-0.14	-0.01	26.03			0.12	2.01
Variance 1			-0.31	0.00	-6.85			-0.01	1.42
Variance 2			-0.23	-0.04	1.22			-0.01	3.19

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-27 16:44:39

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID DPT-08
Well diameter 1 in
Well Total Depth 20 ft
Screen Length 5 ft
Depth to Water 12.08 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	16:39:09	180.02	26.61	4.14	4503.70	--	--	0.49	179.54
Last 5	16:40:09	240.03	26.42	4.18	4626.09	--	--	0.57	178.60
Last 5	16:41:09	300.03	26.21	4.22	4867.50	--	--	0.83	177.14
Last 5	16:42:09	360.03	26.19	4.25	5008.78	--	--	2.36	176.34
Last 5	16:43:10	421.04	26.25	4.23	5032.61	--	--	3.12	176.48
Variance 0			-0.20	0.04	241.41			0.27	-1.47
Variance 1			-0.02	0.02	141.28			1.52	-0.80
Variance 2			0.06	-0.02	23.83			0.77	0.14

Notes

Temp well went dry

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 10:21:37

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID DPT-09
Well diameter 1 in
Well Total Depth 20 ft
Screen Length 5 ft
Depth to Water 12.05 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	10:16:05	600.03	23.92	4.29	4046.75	--	--	0.56	159.01
Last 5	10:17:05	660.03	23.90	4.37	3959.68	--	--	0.67	155.09
Last 5	10:18:05	720.04	23.74	4.40	4019.95	--	--	0.91	153.77
Last 5	10:19:05	780.04	23.61	4.42	4040.04	--	--	1.39	152.67
Last 5	10:20:05	840.04	23.61	4.43	4060.63	--	--	1.79	152.07
Variance 0			-0.16	0.04	60.26			0.23	-1.32
Variance 1			-0.13	0.02	20.10			0.49	-1.11
Variance 2			0.00	0.01	20.58			0.39	-0.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 11:34:18

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID DPT-10
Well diameter 1 in
Well Total Depth 20 ft
Screen Length 5 ft
Depth to Water 10.69 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	11:29:27	360.03	27.15	4.42	522.58	--	--	0.73	161.05
Last 5	11:30:27	420.04	26.89	4.50	515.55	--	--	0.70	157.15
Last 5	11:31:27	480.03	26.64	4.57	513.91	--	--	0.66	153.25
Last 5	11:32:30	543.04	26.56	4.53	513.42	--	--	0.65	151.92
Last 5	11:33:30	603.04	26.57	4.61	509.94	--	--	0.63	147.35
Variance 0			-0.25	0.07	-1.64			-0.04	-3.91
Variance 1			-0.08	-0.04	-0.49			-0.01	-1.32
Variance 2			0.01	0.08	-3.48			-0.02	-4.57

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 13:49:16

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 15 ft

Pump placement from TOC 10 ft

Well Information:

Well ID DPT-11
Well diameter 1 in
Well Total Depth 10 ft
Screen Length 5 ft
Depth to Water 5.32 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.1569514 L
Calculated Sample Rate 30 sec
Stabilization Drawdown 0 in
Total Volume Pumped 1.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Stabilization									
Last 5	13:46:13	210.03	26.07	5.96	438.96	--	--	1.07	97.61
Last 5	13:46:43	240.03	25.72	5.98	449.79	--	--	1.02	94.41
Last 5	13:47:13	270.03	25.38	6.00	458.78	--	--	0.96	91.57
Last 5	13:47:43	300.03	25.06	6.02	465.85	--	--	0.90	88.82
Last 5	13:48:13	330.03	24.78	6.03	472.85	--	--	0.84	86.88
Variance 0			-0.34	0.02	8.99			-0.06	-2.83
Variance 1			-0.32	0.02	7.08			-0.06	-2.75
Variance 2			-0.28	0.01	7.00			-0.06	-1.94

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 12:15:13

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 25 ft

Well Information:

Well ID DPT-13
Well diameter 1 in
Well Total Depth 25 ft
Screen Length 5 ft
Depth to Water 14.95 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 30 sec
Stabilization Drawdown 0 in
Total Volume Pumped 1.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Stabilization									
Last 5	12:12:26	150.03	21.90	4.09	3116.80	--	--	2.00	160.93
Last 5	12:12:56	180.04	21.64	4.11	3133.07	--	--	2.00	160.63
Last 5	12:13:26	210.04	21.45	4.12	3139.30	--	--	1.97	162.38
Last 5	12:13:56	240.04	21.09	4.11	3061.23	--	--	1.95	163.70
Last 5	12:14:26	270.04	20.97	4.10	3093.15	--	--	1.70	166.01
Variance 0			-0.18	0.01	6.23			-0.03	1.75
Variance 1			-0.36	-0.01	-78.07			-0.02	1.32
Variance 2			-0.13	-0.01	31.92			-0.25	2.30

Notes

Grab Samples

DPT-15

Report Created: 2018-03-29 10:41:55

Site: Plant Branch

GPS:

Log Created: 2018-03-29 10:40:46

Number Readings: 6

Battery Type: SmarTROLLâ„¢ Battery Pack

Battery SN: 476554

Device Type: SmarTROLLâ„¢ MP

Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÅµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/29/2018 10:40	1007.5	25.14	2.69	33	3.82	139.4	2050	2.04	1.1	488	0.998	1	-0.01	-0.005	22
3/29/2018 10:40	1007.5	25.05	2.69	33	3.82	138.6	2050	2.04	1.1	488	0.998	1	-0.01	-0.005	22
3/29/2018 10:40	1007.5	24.92	2.2	27	3.82	138.5	2054	2.05	1.1	487	0.998	1	-0.03	-0.012	22
3/29/2018 10:41	1007.5	24.73	1.89	23.1	3.82	138.7	2058.3	2.06	1.1	486	0.998	1	-0.01	-0.003	22
3/29/2018 10:41	1007.6	24.6	1.69	20.6	3.83	138.7	2061.1	2.07	1.1	485	0.998	1	-0.04	-0.016	22.1
3/29/2018 10:41	1007.6	24.46	1.55	18.8	3.84	138.8	2063.4	2.08	1.1	485	0.998	1	0.01	0.004	22.1

Report Created: 2018-03-29 16:47:16
 Site: Plant Branch
 GPS:
 Log Created: 2018-03-29 15:15:29
 Number Readings: 15
 Battery Type: SmarTROLL[®],_ϕ Battery Pack
 Battery SN: 476554
 Device Type: SmarTROLL[®],_ϕ MP
 Device SN: 465016

DPT-17

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÅµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm ³)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/29/2018 15:15	1004.4	28.16	5.94	77.3	5.46	133.3	2199.3	2.07	1.1	455	0.997	1	-0.05	-0.021	29.1
3/29/2018 15:15	1004.4	28.16	5.94	77.3	5.48	130.9	2010.9	1.9	1	497	0.997	1	-0.04	-0.017	29.1
3/29/2018 15:15	1004.5	27.71	5.7	74.2	5.51	124.7	2212.3	2.08	1.1	452	0.997	1	-0.07	-0.029	29.2
3/29/2018 15:15	1004.4	27.4	4.59	59	5.49	123.1	2221.2	2.12	1.1	450	0.997	1	-0.08	-0.035	29.2
3/29/2018 15:16	1004.4	27.3	4.5	57.6	5.5	121.5	2113.4	2.02	1	473	0.997	1	-0.08	-0.034	29.3
3/29/2018 15:16	1004.4	27.24	4.81	61.5	5.51	120	1824.6	1.75	0.9	548	0.997	1	-0.07	-0.03	29.3
3/29/2018 15:16	1004.4	27.29	5.21	66.7	5.56	116.1	2209.6	2.12	1.1	453	0.997	1	-0.07	-0.029	29.3
3/29/2018 15:16	1004.3	26.7	4.75	60.8	5.56	113.3	2046.2	1.96	1	489	0.997	1	-0.05	-0.02	29.4
3/29/2018 15:16	1004.3	26.51	4.42	56	5.55	112.8	2182.5	2.12	1.1	458	0.997	1	-0.06	-0.024	29.4
3/29/2018 15:16	1004.3	26.46	4.77	60.2	5.56	109.5	2188	2.13	1.1	457	0.997	1	-0.06	-0.026	29.5
3/29/2018 15:17	1004.4	26.48	5.06	63.9	5.58	108.7	2189.9	2.13	1.1	457	0.997	1	-0.05	-0.02	29.6
3/29/2018 15:17	1004.4	26.25	5.18	65.4	5.6	106.5	2168	2.11	1.1	461	0.997	1	-0.04	-0.019	29.6
3/29/2018 15:17	1004.3	26.19	5.15	64.7	5.6	105	2178.3	2.13	1.1	459	0.998	1	-0.02	-0.009	29.7
3/29/2018 15:17	1004.3	26.16	5.35	67.2	5.62	103.4	2208.1	2.16	1.1	453	0.998	1	-0.06	-0.028	29.8
3/29/2018 15:17	1004.3	26.19	5.6	70.3	5.63	100.1	2267.6	2.22	1.1	441	0.998	1	-0.04	-0.018	29.8

Product Name: Low-Flow System

Date: 2018-03-29 16:46:39

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 25 ft

Well Information:

Well ID DPT-18
Well diameter 1 in
Well Total Depth 25 ft
Screen Length 5 ft
Depth to Water 16.39 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	16:42:03	540.03	23.69	4.82	1446.59	--	--	0.45	115.95
Last 5	16:43:03	600.03	23.45	4.84	1408.14	--	--	0.43	116.27
Last 5	16:44:03	660.02	23.20	4.86	1379.16	--	--	0.40	116.48
Last 5	16:45:03	720.04	23.02	4.87	1356.27	--	--	0.38	116.69
Last 5	16:46:03	780.04	22.89	4.88	1332.78	--	--	0.36	116.57
Variance 0			-0.24	0.02	-28.98			-0.02	0.22
Variance 1			-0.19	0.01	-22.89			-0.02	0.20
Variance 2			-0.13	0.01	-23.49			-0.01	-0.12

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 09:52:07

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID DPT-19
Well diameter 1 in
Well Total Depth 20 ft
Screen Length 5 ft
Depth to Water 8.39 ft

Pumping Information:

Final Pumping Rate 185 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	09:47:23	180.03	18.93	5.77	1837.30	--	--	0.53	117.03
Last 5	09:48:23	240.04	18.79	5.69	1867.38	--	--	0.47	114.89
Last 5	09:49:23	300.04	18.70	5.60	1889.39	--	--	0.42	116.19
Last 5	09:50:23	360.04	18.65	5.56	1908.53	--	--	0.41	116.16
Last 5	09:51:23	420.04	18.65	5.54	1919.18	--	--	0.34	115.94
Variance 0			-0.09	-0.09	22.01			-0.05	1.30
Variance 1			-0.05	-0.04	19.14			-0.01	-0.03
Variance 2			0.00	-0.02	10.64			-0.07	-0.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 14:02:26

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 40 ft

Well Information:

Well ID DPT-21
Well diameter 1 in
Well Total Depth 40 ft
Screen Length 5 ft
Depth to Water 26.05 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 30 sec
Stabilization Drawdown 0 in
Total Volume Pumped 1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	13:59:48	150.04	22.91	5.20	2258.62	--	--	0.69	185.64
Last 5	14:00:18	180.04	22.62	5.21	2272.03	--	--	0.62	186.97
Last 5	14:00:48	210.03	22.44	5.24	2284.53	--	--	0.57	186.64
Last 5	14:01:18	240.04	22.35	5.23	2304.96	--	--	0.55	188.52
Last 5	14:01:48	270.04	22.38	5.23	2314.41	--	--	0.50	189.59
Variance 0			-0.18	0.03	12.49			-0.05	-0.33
Variance 1			-0.09	-0.01	20.43			-0.02	1.88
Variance 2			0.03	0.00	9.45			-0.05	1.08

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 14:53:03

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name DPT Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model NA

Pump Information:

Pump Model/Type GeoPump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 20 ft

Pump placement from TOC 15 ft

Well Information:

Well ID DPT-22
Well diameter 1 in
Well Total Depth 15 ft
Screen Length 5 ft
Depth to Water 5.95 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 30 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	14:50:24	420.03	20.33	5.63	901.44	--	--	0.49	162.25
Last 5	14:50:54	450.05	20.30	5.60	901.49	--	--	0.46	163.87
Last 5	14:51:24	480.04	20.25	5.59	902.51	--	--	0.44	163.81
Last 5	14:51:54	510.04	20.21	5.60	904.75	--	--	0.42	163.56
Last 5	14:52:24	540.03	20.21	5.62	904.83	--	--	0.40	162.35
Variance 0			-0.04	-0.00	1.02			-0.02	-0.05
Variance 1			-0.04	0.01	2.24			-0.02	-0.25
Variance 2			-0.00	0.02	0.09			-0.02	-1.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-31 09:36:04

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 62 ft

Pump placement from TOC 55 ft

Well Information:

Well ID C2-02
Well diameter 2 in
Well Total Depth 60 ft
Screen Length 10 ft
Depth to Water 45.23 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.4667322 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 11.52 in
Total Volume Pumped 7.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10000%
Stabilization									
Last 5	09:16:03	2640.04	20.21	3.83	4456.63	8.09	46.19	0.76	264.65
Last 5	09:20:03	2880.05	20.31	3.83	4446.42	6.14	46.19	0.67	266.84
Last 5	09:24:03	3120.04	20.30	3.84	4438.50	7.78	46.19	0.65	268.23
Last 5	09:28:03	3360.05	20.35	3.84	4441.18	6.76	46.19	0.61	269.36
Last 5	09:32:03	3600.05	20.57	3.84	4434.16	5.37	46.19	0.57	270.10
Variance 0			-0.01	0.01	-7.92			-0.02	1.38
Variance 1			0.05	0.00	2.68			-0.04	1.13
Variance 2			0.22	0.00	-7.02			-0.04	0.74

Notes

Prepurged 4 L
Turbidity stabilized below 10 NTU. DO stable within 0.2 mg/L

Grab Samples

C2-02
TPH

Product Name: Low-Flow System

Date: 2018-04-06 11:50:49

Project Information:

Operator Name Robert Mull
Company Name Resolute Env
Project Name Investigation
Site Name Plant Branch
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 91 ft

Pump placement from TOC 54.90 ft

Well Information:

Well ID C2-02
Well diameter 2 in
Well Total Depth 59.90 ft
Screen Length 10 ft
Depth to Water 45.07 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5961715 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 11.04 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 1000%
Stabilization									
Last 5	11:32:16	4566.91	21.34	3.84	4162.38	16.40	45.92	0.41	164.80
Last 5	11:36:16	4806.91	21.30	3.84	4095.58	13.90	45.92	0.29	164.99
Last 5	11:40:16	5046.90	21.34	3.84	4101.38	14.80	45.88	0.27	166.13
Last 5	11:44:17	5287.90	21.86	3.84	4106.37	11.30	45.95	0.25	166.97
Last 5	11:48:17	5527.89	22.45	3.84	4074.60	8.74	46.99	0.25	167.55
Variance 0			0.04	0.00	5.81			-0.02	1.14
Variance 1			0.53	-0.00	4.98			-0.01	0.84
Variance 2			0.59	0.01	-31.77			-0.00	0.58

Notes

Prepurged 9.5 L to lower turbidity
Water level fluctuations due to changing pump rate. Pump was raised 1 ft to help with lower turbidity

Grab Samples

C2-02
DRO
DUP-1
DRO

APPENDIX D

Statistics Backup Files

```
rm(list=ls())  
#setwd (C:/Users/.....)  
df <- read_excel("pH-Branch.xlsx")  
df <- as.data.frame(df)  
kruskal.test <- kruskal.test(df$REPORT_RESULT_VALUE ~ df$Type, data = df)  
dunnTest(df$REPORT_RESULT_VALUE ~ df$Type, data = df)
```

	LOC_NAME	SAMPLE_DATE	REPORT_RESULT_ VALUE	Type
1	PZ-44	9/28/2021	6.22	AP-B Proximity
2	PZ-51I	9/27/2021	5.34	CPA
3	PZ-57I	9/28/2021	5.37	CPA
4	PZ-58I	9/28/2021	4	CPA
5	PZ-60I	9/28/2021	4.77	CPA
6	PZ-61I	5/19/2021	5.36	CPA
7	PZ-61I	9/27/2021	5.02	CPA
8	BRGWC-25I	3/4/2020	6.02	AP-B Proximity
9	BRGWC-45	3/5/2020	5.95	AP-B Proximity
10	BRGWC-50	3/4/2020	5.2	CPA
11	BRGWC-52I	3/4/2020	6.54	AP-B Proximity
12	PZ-57I	4/12/2021	5.35	CPA
13	PZ-58I	4/12/2021	5.15	CPA
14	PZ-60I	4/12/2021	5.05	CPA
15	PZ-61I	4/12/2021	5.4	CPA
16	BRGWC-25I	9/28/2021	5.97	AP-B Proximity
17	BRGWC-25I	2/2/2022	6.23	AP-B Proximity
18	BRGWC-45	9/23/2021	5.95	AP-B Proximity
19	BRGWC-45	2/2/2022	5.92	AP-B Proximity
20	BRGWC-50	9/27/2021	5.05	CPA
21	BRGWC-50	2/3/2022	5.2	CPA
22	BRGWC-52I	9/28/2021	6.81	AP-B Proximity
23	BRGWC-52I	2/2/2022	6.35	AP-B Proximity
24	PZ-44	2/2/2022	6.2	AP-B Proximity
25	PZ-51I	2/2/2022	5.44	CPA
26	PZ-57I	2/4/2022	5.28	CPA
27	PZ-58I	2/3/2022	3.9	CPA
28	PZ-59I	2/3/2022	3.71	CPA
29	PZ-60I	2/3/2022	4.73	CPA
30	PZ-61I	2/2/2022	5.25	CPA
31	PZ-62I	2/4/2022	5.79	CPA
32	PZ-63I	2/4/2022	5.89	CPA
33	C2-02	10/6/2022	3.69	Coal Pile
34	PZ-64I	11/7/2022	5.59	CPA
35	PZ-67	10/6/2022	3.97	Coal Pile
36	BRGWC-25I	8/23/2022	6.11	AP-B Proximity
37	BRGWC-45	8/25/2022	5.74	AP-B Proximity
38	BRGWC-50	8/24/2022	5.01	CPA
39	BRGWC-52I	8/25/2022	6.21	AP-B Proximity
40	PZ-44	8/25/2022	6.06	AP-B Proximity
41	PZ-51I	8/24/2022	5.49	CPA
42	PZ-57I	8/25/2022	5.91	CPA
43	PZ-58I	8/24/2022	3.81	CPA
44	PZ-59I	8/25/2022	3.72	CPA

45	PZ-60I	8/24/2022	4.55	CPA
46	PZ-61I	8/24/2022	5.14	CPA
47	PZ-62I	8/25/2022	5.5	CPA
48	PZ-63I	8/25/2022	5.65	CPA
49	PZ-64I	10/12/2022	5.53	CPA
50	PZ-65I	10/11/2022	4.16	CPA
51	PZ-66I	10/11/2022	5.81	CPA
52	BRGWC-25I	1/26/2023	6.18	AP-B Proximity
53	BRGWC-45	1/25/2023	5.82	AP-B Proximity
54	BRGWC-50	1/25/2023	5.18	CPA
55	BRGWC-52I	1/25/2023	6.25	AP-B Proximity
56	PZ-44	1/25/2023	6.13	AP-B Proximity
57	PZ-51I	1/26/2023	5.44	CPA
58	PZ-57I	1/30/2023	5.39	CPA
59	PZ-58I	1/26/2023	3.93	CPA
60	PZ-59I	1/26/2023	3.78	CPA
61	PZ-60I	1/26/2023	4.6	CPA
62	PZ-61I	1/26/2023	5.16	CPA
63	PZ-62I	1/30/2023	5.38	CPA
64	PZ-63I	1/30/2023	5.66	CPA
65	PZ-64I	1/30/2023	5.33	CPA
66	PZ-65I	1/26/2023	4.06	CPA
67	PZ-66I	1/30/2023	5.64	CPA
68	IW-B-1	2/1/2023	7.32	AP-B
69	IW-B-2	1/31/2023	6.53	AP-B
70	BRGWC-25I	9/8/2016	6.07	AP-B Proximity
71	BRGWC-25I	11/17/2016	5.96	AP-B Proximity
72	BRGWC-25I	2/21/2017	5.98	AP-B Proximity
73	BRGWC-25I	6/13/2017	5.96	AP-B Proximity
74	BRGWC-25I	9/27/2017	5.85	AP-B Proximity
75	BRGWC-25I	2/14/2018	5.94	AP-B Proximity
76	BRGWC-25I	6/26/2018	5.87	AP-B Proximity
77	BRGWC-25I	12/18/2018	5.84	AP-B Proximity
78	BRGWC-25I	3/20/2019	6.03	AP-B Proximity
79	BRGWC-25I	8/27/2019	6.01	AP-B Proximity
80	BRGWC-25I	10/15/2019	6	AP-B Proximity
81	BRGWC-25I	8/19/2020	6.32	AP-B Proximity
82	BRGWC-25I	9/15/2020	6	AP-B Proximity
83	BRGWC-25I	3/2/2021	6.1	AP-B Proximity
84	BRGWC-45	6/28/2018	5.88	AP-B Proximity
85	BRGWC-45	9/19/2018	5.9	AP-B Proximity
86	BRGWC-45	10/29/2018	5.93	AP-B Proximity
87	BRGWC-45	11/28/2018	5.99	AP-B Proximity
88	BRGWC-45	12/20/2018	6.04	AP-B Proximity
89	BRGWC-45	3/20/2019	6.1	AP-B Proximity
90	BRGWC-45	8/28/2019	5.86	AP-B Proximity
91	BRGWC-45	10/17/2019	5.93	AP-B Proximity

92	BRGWC-45	12/3/2019	5.94	AP-B Proximity
93	BRGWC-45	8/20/2020	5.86	AP-B Proximity
94	BRGWC-45	9/16/2020	5.27	AP-B Proximity
95	BRGWC-45	3/2/2021	6.17	AP-B Proximity
96	BRGWC-50	6/28/2018	5.03	CPA
97	BRGWC-50	10/29/2018	5.19	CPA
98	BRGWC-50	11/28/2018	5.28	CPA
99	BRGWC-50	12/19/2018	5.15	CPA
100	BRGWC-50	1/16/2019	5.14	CPA
101	BRGWC-50	3/20/2019	5.32	CPA
102	BRGWC-50	8/29/2019	5.2	CPA
103	BRGWC-50	10/16/2019	5.36	CPA
104	BRGWC-50	8/20/2020	5.26	CPA
105	BRGWC-50	9/17/2020	4.41	CPA
106	BRGWC-50	3/4/2021	4.34	CPA
107	BRGWC-52I	10/29/2018	6.77	AP-B Proximity
108	BRGWC-52I	11/28/2018	6.44	AP-B Proximity
109	BRGWC-52I	12/20/2018	6.75	AP-B Proximity
110	BRGWC-52I	1/17/2019	6.41	AP-B Proximity
111	BRGWC-52I	2/13/2019	6.42	AP-B Proximity
112	BRGWC-52I	9/19/2018	6.48	AP-B Proximity
113	BRGWC-52I	3/20/2019	6.59	AP-B Proximity
114	BRGWC-52I	8/29/2019	6.27	AP-B Proximity
115	BRGWC-52I	10/16/2019	7	AP-B Proximity
116	BRGWC-52I	8/20/2020	6.85	AP-B Proximity
117	BRGWC-52I	9/17/2020	6.12	AP-B Proximity
118	BRGWC-52I	3/4/2021	5.87	AP-B Proximity
119	IW-B-1	10/24/2019	7.51	AP-B
120	IW-B-1	3/3/2021	6.86	AP-B
121	IW-B-2	10/22/2019	7.31	AP-B
122	IW-B-2	3/3/2021	7.15	AP-B
123	PZ-44	3/6/2018	6.1	AP-B Proximity
124	PZ-44	5/1/2018	6.12	AP-B Proximity
125	BRGWC-45	3/6/2018	6.15	AP-B Proximity
126	BRGWC-45	5/1/2018	6.14	AP-B Proximity
127	BRGWC-45	7/31/2018	6.07	AP-B Proximity
128	PZ-46	3/6/2018	6	AP-B Proximity
129	PZ-46	5/1/2018	5.87	AP-B Proximity
130	PZ-49	5/1/2018	6.09	AP-B Proximity
131	BRGWC-50	3/15/2018	5.26	CPA
132	BRGWC-50	5/1/2018	5.38	CPA
133	BRGWC-50	8/1/2018	5.22	CPA
134	PZ-51I	8/3/2018	5.47	CPA
135	PZ-51I	1/19/2019	5.45	CPA
136	PZ-51I	10/18/2019	5.79	CPA
137	PZ-51I	8/20/2020	5.57	CPA
138	PZ-51I	9/17/2020	4.93	CPA

139	PZ-51I	10/27/2020	5.49	CPA
140	PZ-51I	3/4/2021	4.57	CPA
141	BRGWC-52I	8/10/2018	6.28	AP-B Proximity
142	BRGWC-45	8/23/2018	6.07	AP-B Proximity
143	BRGWC-52I	8/23/2018	6.28	AP-B Proximity
144	BRGWC-25I	4/24/2023	6.25	AP-B Proximity
145	BRGWC-45	4/24/2023	5.9	AP-B Proximity
146	BRGWC-50	4/25/2023	5.09	CPA
147	BRGWC-52I	4/24/2023	6.63	AP-B Proximity
148	IW-B-1	4/24/2023	6.08	AP-B
149	PZ-44	4/25/2023	6.24	AP-B Proximity
150	PZ-58I	4/25/2023	3.93	CPA
151	PZ-59I	4/24/2023	3.7	CPA
152	PZ-60I	4/25/2023	4.58	CPA
153	PZ-63I	4/25/2023	5.59	CPA
154	PZ-65I	4/24/2023	4.22	CPA
155	PZ-66I	4/24/2023	5.72	CPA
156	IW-B-3	6/5/2023	8.4	AP-B
157	IW-B-4	6/5/2023	5.79	AP-B
158	IW-B-5	6/5/2023	5.81	AP-B
159	BRGWC-25I	8/24/2023	6.14	AP-B Proximity
160	BRGWC-45	8/24/2023	5.71	AP-B Proximity
161	BRGWC-50	8/23/2023	5.12	CPA
162	BRGWC-52I	8/24/2023	6.24	AP-B Proximity
163	PZ-44	8/23/2023	6.11	AP-B Proximity
164	PZ-51I	8/23/2023	5.37	CPA
165	PZ-57I	8/21/2023	5.7	CPA
166	PZ-58I	8/23/2023	3.99	CPA
167	PZ-59I	8/23/2023	3.68	CPA
168	PZ-60I	8/23/2023	4.58	CPA
169	PZ-61I	8/22/2023	5.16	CPA
170	PZ-63I	8/23/2023	5.68	CPA
171	PZ-64I	8/23/2023	5.21	CPA
172	PZ-65I	8/21/2023	4.23	CPA
173	C1-06	3/1/2018	3.51	Coal Pile
174	C2-02	3/1/2018	3.84	Coal Pile
175	DPT-01	3/1/2018	4.38	Coal Pile
176	DPT-02	3/1/2018	4.01	Coal Pile
177	DPT-04	3/1/2018	4.02	Coal Pile
178	DPT-05	3/1/2018	4.39	Coal Pile
179	DPT-06	3/1/2018	5.39	Coal Pile
180	DPT-07	3/1/2018	3.93	Coal Pile
181	DPT-08	3/1/2018	4.23	Coal Pile
182	DPT-09	3/1/2018	4.43	Coal Pile
183	DPT-10	3/1/2018	4.61	Coal Pile
184	DPT-11	3/1/2018	6.03	Coal Pile
185	DPT-13	3/1/2018	4.1	Coal Pile

186	DPT-15	3/1/2018	3.82	Coal Pile
187	DPT-17	3/1/2018	5.63	Coal Pile
188	DPT-18	3/1/2018	4.88	Coal Pile
189	DPT-19	3/1/2018	5.54	Coal Pile
190	DPT-21	3/1/2018	5.23	Coal Pile
191	DPT-22	3/1/2018	5.62	Coal Pile

APPENDIX E

Isotope Assessment Results

SUBJECT
Isotope Assessment
Georgia Power Company Plant Branch
Putnam County, Georgia

TO
Joju Abraham
Southern Company Services

DATE
February 27, 2024

OUR REF
30178565

COPIES TO:
Julie K. Sueker, PhD, PH
Lauren Hartley, Southern Company Service
Ben Hodges, Georgia Power Company
Mike Smilley, Georgia Power Company

FROM
Geoff Gay, PE



Introduction

Routine groundwater monitoring has been conducted at the Georgia Power Company Plant Branch Ash Ponds B, C and D (Geosyntec 2023). Relatively higher concentrations of cobalt and sulfate are associated with relatively lower concentrations of boron in monitoring wells in an area designated Area A for the purposes of this memo (**Figure 1**). In particular, in August 2022, cobalt concentrations ranged from 0.357 to 9.05 milligrams per liter (mg/L) and sulfate concentrations ranged from 571 mg/L to 2,520 mg/L at BGRWC-50, PZ-50D, PZ-58I, PZ-59I, PZ-60I, PZ-61, PZ-64I, PZ-65I, and PZ-66I (Geosyntec 2023). Boron concentrations in groundwater at this set of locations ranged from 0.0152 to 0.473 mg/L in August 2022. The presence of cobalt and sulfate at these locations could be due to potential migration from beneath Ash Pond B or from beneath the former coal pile (**Figure 2**, modified from Geosyntec 2022). Analysis of groundwater samples for stable isotopes of water and sulfate in groundwater was conducted to provide lines of evidence for identifying the source of groundwater in Area A.

Methods

Groundwater samples were collected on April 24 and 25, 2023 by Atlantic Coast Consultants from the monitoring wells listed in **Table 1** below. Samples were field filtered with a 0.45-micron filters into 1liter HDPE bottles. Samples were shipped to Isotech Laboratories, Inc. located in Champaign, Illinois, for isotopic analysis.

Table 1. Proposed Samples for Isotope Analysis

BRGWC-25I (dup)	BRGWC-52I	PZ-59I	PZ-65I
BRGWC-45	PZ-44	PZ-60I	PZ-66I
BRGWC-50 (dup)	PZ-58I	PZ-63I	BRGWC-47
IW-B-1 (screened in ash)	DEWTR-DW-B1 Ash Pond B dewatering well (roughly 100 feet from IW-B-1)	SW-APB (dup) (Ash Pond B surface water)	BGRWA-23S (upgradient)

Notes (dup) indicates locations where duplicates were collected.

Isotope analysis included stable oxygen and hydrogen isotopes of water and stable sulfur and oxygen isotopes of sulfate and as follows:

- **Sulfur and oxygen isotopes of sulfate method:** Sulfate is precipitated by barium. $\delta^{34}\text{S}$ is determined by combustion to SO_2 gas using an Elementar Vario EL Elemental Analyzer (EA) and SO_2 gas is analyzed by Isotope Ratio Mass Spectrometer (IRMS) for measurement of $\delta^{34}\text{S}$. Analysis of $\delta^{18}\text{O}$ is performed using a Thermo Temperature Conversion EA to combust to CO which is also analyzed by IRMS. The laboratory accuracy/precision for $\delta^{34}\text{S}$ of sulfate is $\pm 0.5 \text{ ‰}$. The laboratory accuracy/precision for $\delta^{18}\text{O}$ of sulfate is $\pm 0.5 \text{ ‰}$.
- **Oxygen and hydrogen isotopes of water method:** Hydrogen and deuterium isotopes of water are analyzed by a Picarro CRDS (cavity ringdown spectrometer) model L1102-i. The laboratory accuracy/precision for $\delta^{18}\text{O}$ of water is $\pm 0.10 \text{ ‰}$. The laboratory accuracy/precision for deuterium of water is $\pm 2.0 \text{ ‰}$.

Results

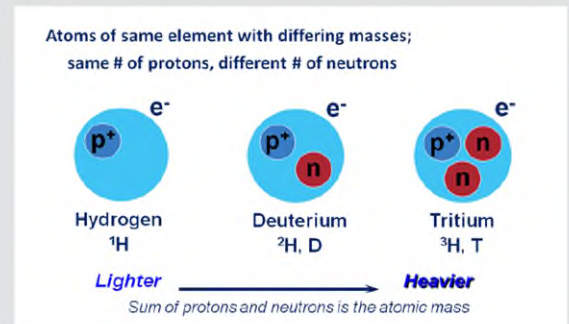
Results of the isotope analyses are tabulated in **Table 2** and presented graphically in **Figures 4** through **6** and **Figure 8**.

Stable Isotopes of Sulfate

Isotopic analysis of the sulfur and oxygen isotopic composition of sulfate in groundwater was used to evaluate sources of sulfate in groundwater at the Plant Branch site. Potential sources of sulfate in groundwater at the site include naturally occurring soil and bedrock sources, leaching from coal ash stored in ash management areas, and leaching from coal. Sulfate derived from coal ash is typically present in the oxidized sulfate form due to oxidation of sulfide minerals present in coal during combustion of the coal (combustion signal). The stable oxygen isotopic composition of sulfate from a combustion source is typically more positive due to incorporation of atmospheric oxygen ($\delta^{18}\text{O} = 23\text{‰}$) into the sulfate molecule, as shown in an example dataset from a client confidential site in **Figure 3** in the upper left-hand area of the graph. Sulfate derived from oxidation of sulfide minerals in coal (oxidation signal) typically is less positive because some of the oxygen in the sulfate molecule is derived from precipitation water or groundwater ($\delta^{18}\text{O} \sim -5\text{‰}$ to -1‰) (shown in the lower left portion of the graph for the

Isotope Primer

Isotopes are atoms of the same element that have different masses due to differing numbers of neutrons in the nucleus. For example, hydrogen atoms can contain nuclei with no neutrons (hydrogen, ^1H), one neutron (deuterium, ^2H), or two neutrons (tritium, ^3H) (Illustration below).



Stable isotopes remain unchanged while radioactive isotopes, such as carbon-14 (^{14}C), decay to stable isotopes. Isotopes vary in abundance; oxygen is comprised of ^{16}O (99.757%), ^{17}O (0.038%), and ^{18}O (0.205%).

Stable isotope concentrations are typically measured against a known standard and are often reported in δ (delta) notation in units of ‰ (per mil):

$$\delta^{13}\text{C} (\text{‰}) = \left(\left(\frac{\delta^{13}\text{C}_x / \delta^{12}\text{C}_x}{\delta^{13}\text{C}_s / \delta^{12}\text{C}_s} \right) - 1 \right) \times 1000$$

where subscript x denotes sample and subscript s denotes standard. Negative δ values indicate that there is less of the rare (low abundance) isotope in the sample relative to the standard, i.e., the sample is "depleted" relative to the standard. Positive δ values indicate that there is more of the rare isotope in the sample relative to the standard, i.e., the sample is "enriched" relative to the standard. Isotope values for different samples can be directly compared with each other when this notation method is used.

example dataset from another site on **Figure 3**). Microbial reduction of sulfate results in a shift towards more positive $\delta^{18}\text{O}$ and $\delta^{34}\text{S}$ values as reduction progresses with a $\delta^{18}\text{O} / \delta^{34}\text{S}$ slope of approximately 0.5 (**Figure 3**).

Site groundwater samples show a distinct grouping for all Area A wells, except PZ-63I, for the stable S and O isotopic composition of sulfate (**Figures 4 through 6**). The stable S and O isotopic composition and sulfate concentrations for this distinct grouping of Area A wells is consistent with oxidation of sulfide minerals in coal. The sulfate stable S and O isotopic composition for the other groundwater and surface water samples have a broader range that does not appear to be associated with oxidation of sulfide minerals in coal. Sulfate in groundwater from PZ-63I plots between other Area A wells and BRGWC-52I (**Figures 5 and 6**), suggesting that sulfate in groundwater at PZ-63I is derived from a mixture of sulfate from coal ash leachate and from oxidation of sulfide minerals in coal. Monitoring well PZ-63I is located between BRGWC-52I and other Area A wells and groundwater at this location may be a mixture of groundwater that migrated through the ash management system and groundwater that migrated beneath the former coal pile (**Figure 2**).

Stable Isotopes of Water

Stable isotopes of water provide information on hydrological processes. Meteorological process (e.g., precipitation and evaporation) and water-rock interaction cause predictable changes (fractionation) in the stable oxygen and hydrogen isotopes within the water which can provide a signature of the origin of the water. Variance in the $\delta^{18}\text{O}$ and the $\delta^2\text{H}$ of precipitation is described by the meteoric water line (MWL) which is the best fit linear regression through precipitation isotopic composition data (shown as an example dataset from another site on **Figure 7**). A local meteoric water line (LMWL) was established for the site based on precipitation samples collected at Panola Mount, GA (Kendall and Coplen 2001) (**Figure 8**). The isotopic composition of groundwater or surface water can be compared to the MWL to estimate the amount of water recharged from precipitation occurring during colder temperatures versus warmer temperatures. Evaporation causes a shift in isotopic composition that plots below the MWL with a slope that is less than the slope of the MWL and can be used to identify water that has been subjected to evaporation.

Groundwater samples collected from IW-B-1 and BRGWA-23S have the most negative $\delta^{18}\text{O}$ and $\delta^2\text{H}$ values and plot on the LMWL (**Figure 8**). BRGWA-23S is considered to be a background groundwater monitoring location and the isotopic composition of groundwater at this location likely represents groundwater unaffected by site operations. The surface water sample collected from SW-APB has the least negative $\delta^{18}\text{O}$ and $\delta^2\text{H}$ values and falls below the LMWL, indicating the surface water has been subjected to evaporation. Area B groundwater samples plot along a line drawn between BRGWA-23S and DEWTR-DW-B1, indicating that the Area B groundwater has received evaporated water to varying extents (**Figure 8**). Area A samples, except PZ-63I, plot in a group that falls below the LMWL but with a slope similar to the LMWL. These results indicate that Area A groundwater has not undergone the same evaporation processes as Area B groundwater. PZ-63I plots along the Area B evaporation line between the Area A samples and BRGWC-52I. These results indicate that groundwater at PZ-63I is likely a mixture of groundwater that has migrated through the ash management system and groundwater that migrated beneath the former coal pile. This interpretation of a mixture of ash management system and coal pile area groundwater at PZ-63I is consistent with lower sulfate concentrations and higher boron concentrations in groundwater at PZ-63I compared with other Area A groundwater samples and higher cobalt concentrations at PZ-63I compared with BRGWC-52I.

Summary

Analysis of groundwater samples for stable isotopes of water and sulfate in groundwater was conducted to provide lines of evidence for identifying the source of groundwater in Area A. For stable S and O isotopes of sulfate, Area A groundwater samples are grouped within a region that is consistent with sulfate derived from oxidation of sulfide minerals. Area B groundwater and surface water samples have a broader range for both the stable S and O isotopes of sulfate and are distinctly different from the Area A groundwater samples, with the exception of PZ-63I which plots along a mixing line between Area A samples and BRGWC-52I. For stable O and H isotopes of water, Area B samples plot along an evaporation line, indicating groundwater in Area B has been affected by evaporation. Area A groundwater samples group together with a smaller range of O and H isotopes of water compared with Area B groundwater samples. Based on these results, Area A groundwater is unique compared with Area B groundwater and Area A groundwater has not been affected by the ash management areas. Groundwater at PZ-63I is likely a mixture of groundwater from the ash management system and groundwater from the coal pile area.

Enclosures

Table 1	Proposed Samples for Isotope Analysis (in text)
Table 2	Analytical Data Summary
Figure 1	Sampling Locations
Figure 2	Groundwater Potentiometric Surface Map (modified from Geosyntec 2023)
Figure 3	Example Stable S and O Isotopes of Sulfate
Figure 4	Stable S and O Isotopes of Sulfate for Site Samples
Figure 5	Stable S Isotopes of Sulfate Versus Sulfate for Site Samples
Figure 6	Stable O Isotopes of Sulfate Versus Sulfate for Site Samples
Figure 7	Example Stable O and H Isotopes of Water
Figure 8	Stable O and H Isotopes of Water for Site Samples
Attachment A	Laboratory Analytical Reports

Works Cited

- Geosyntec. 2022. 2022 Annual Groundwater Monitoring and Corrective Action Report. Georgia Power Company Plant Branch Ash Ponds B, C, & D. July.
- Geosyntec. 2023. 2022 Semiannual Groundwater Monitoring and Corrective Action Report. Plant Branch Ash Ponds B, C & D. February.
- Kendall, C. and T. Coplen. 2001. *Distribution of Oxygen-18 and Deuterium in River Waters across the United States*. Hydrol. Process. 15, 1363-1393 (2001).

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Attachment A	Laboratory Analytical Reports

Table 2
Analytical Data Summary
Isotope Assessment Technical Memorandum
Plant Branch



	Sample Type	Sample Date	Sulfate	Boron	$\delta^{18}\text{O H}_2\text{O}$	$\delta^2\text{H H}_2\text{O}$	$\delta^{34}\text{S SO}_4^{2-}$	$\delta^{18}\text{O SO}_4^{2-}$
		Units	mg/L	mg/L	‰	‰	‰	‰
Area A Wells								
BRGWC-50	N	4/25/2023	1,560	0.355	-3.26	-17.9	4.6	1.1
BRGWC-50	FD	4/25/2023	1,610	0.369	-3.32	-19.7	4.8	1.1
PZ-58I	N	4/25/2023	871	0.435	-2.97	-16.3	5.2	1.9
PZ-59I	N	4/24/2023	2,970	0.0588	-3.65	-21.9	5.6	0.4
PZ-60I	N	4/25/2023	1,890	0.294	-3.46	-19.2	4.8	1.1
PZ-63I	N	4/25/2023	315	0.741	-2.65	-14.4	7.4	7.0
PZ-65I	N	4/24/2023	2,680	0.0299	-3.95	-22.8	5.9	1.4
PZ-66I	N	4/24/2023	1,960	0.134	-3.97	-22.5	4.8	1.4
Area B Wells								
BRGWA-23S	N	4/24/2023	13	0.0454	-4.58	-24.4	8.4	7.2
BRGWC-25I	N	4/24/2023	204	1.49	-1.68	-9.4	11.5	23.3
BRGWC-25I	FD	4/24/2023	222	1.54	-1.80	-11.7	11.9	23.5
BRGWC-45	N	4/24/2023	108	0.0403	-4.06	-22.1	5.7	6.9
BRGWC-47	N	4/25/2023	1,390	0.716	-2.43	-13.2	3.2	7.2
BRGWC-52I	N	4/24/2023	137	1.49	-2.07	-11.9	12.0	23.7
PZ-44	N	4/25/2023	42.4	1.32	-3.12	-16.6	23.7	21.2
Pond B Ash Pore Water Wells								
DEWTR-DW-B1	N	4/25/2023	460	1.68	-1.50	-7.5	8.1	15.5
IW-B-1	N	4/24/2023	21.8	0.378	-4.89	-24.9	7.5	7.9
Surface Water								
SW-APB	N	4/25/2023	581	1.50	-1.24	-5.4	7.2	18.3
SW-APB	FD	4/25/2023	570	1.59	-1.27	-5.7	7.1	18.9

Acronyms and Abbreviations:

‰ - per mil
 N - normal
 FD - field duplicate
 mg/L - milligrams per liter

Figure 1
Sampling Locations

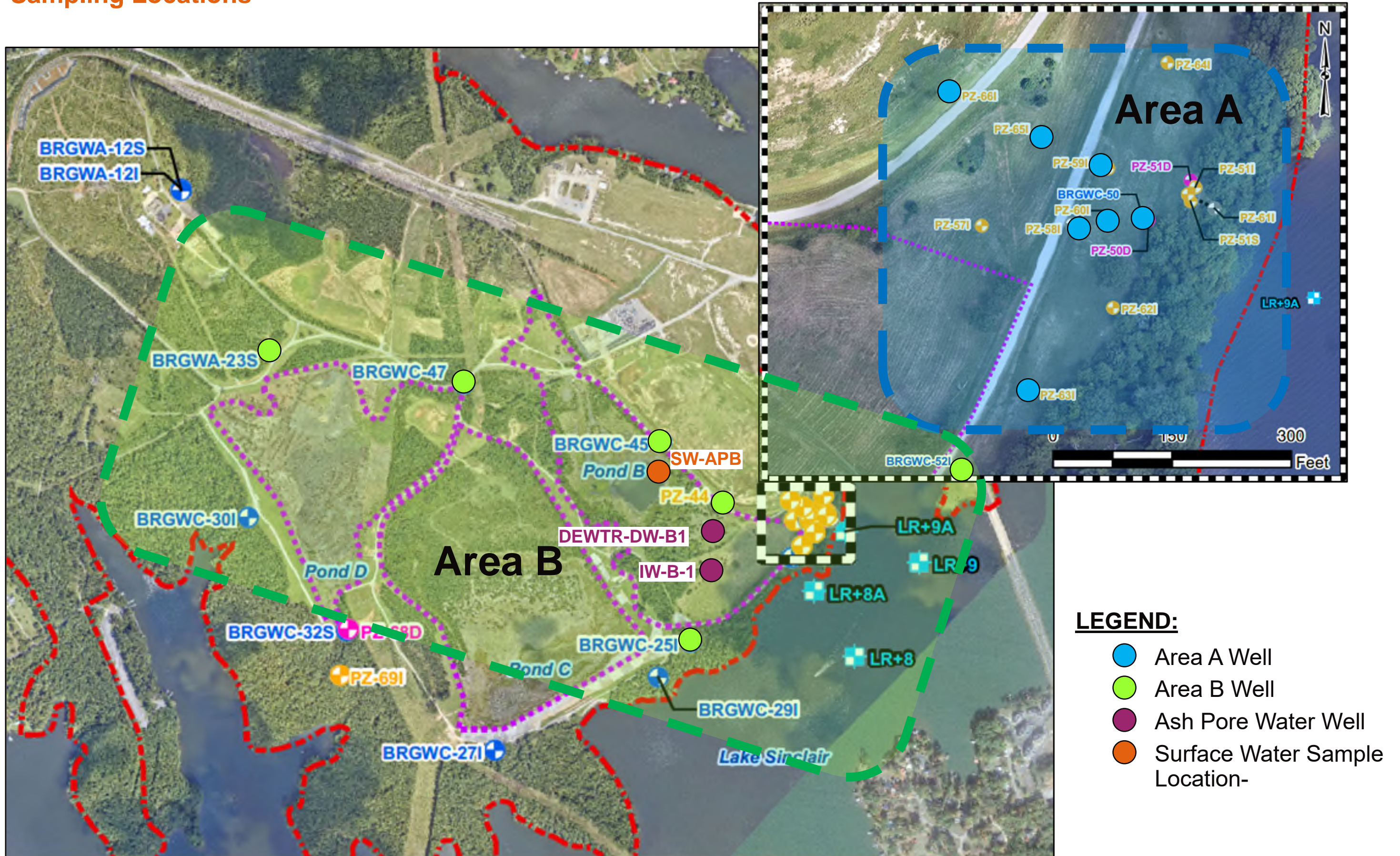
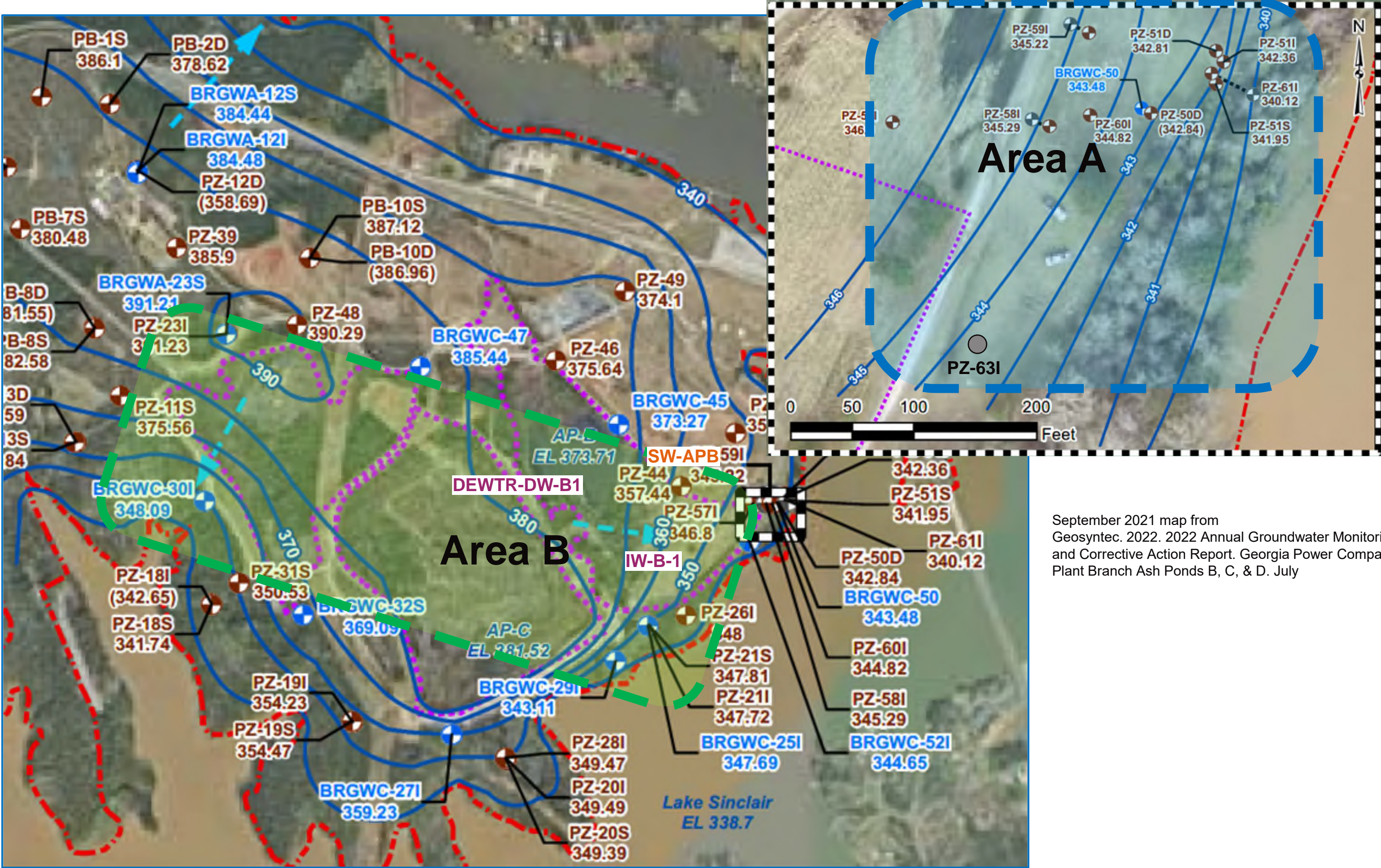


Figure 2
Groundwater Potentiometric Surface Map



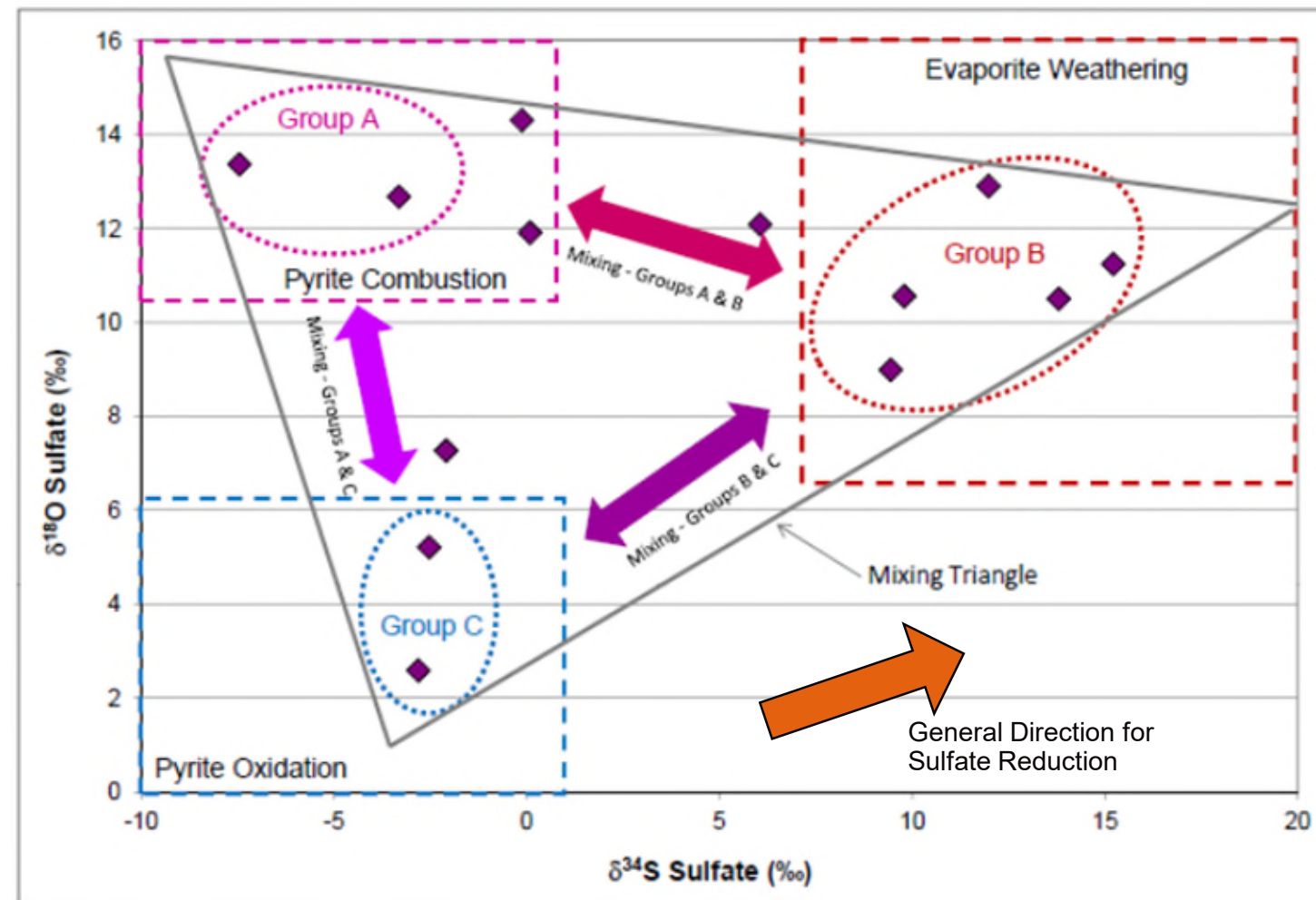
September 2021 map from Geosyntec. 2022. 2022 Annual Groundwater Monitoring and Corrective Action Report. Georgia Power Company Plant Branch Ash Ponds B, C, & D. July

Figure 3
Example Stable S and O Isotopes of Sulfate

Stable S and O isotopes of sulfate:

- Stable S and O isotopes of sulfate – differentiate sources of sulfate in groundwater
 - Stable S and O isotopic composition of sulfate differs for pyrite combustion (sulfate from fly ash), pyrite oxidation (oxidation of pyrite in coal or native soil and bedrock minerals), and evaporation (likely not important for this site)
 - Mixing of sulfate from different sources can be evaluated
 - Reduction of sulfate causes shifts towards more positive stable S and O isotope values (orange arrow below)

Example Sulfate stable S and O isotope diagram



This is an example plot from another site used here to illustrate this isotopic technique

Figure 4
Stable S and O Isotopes of Sulfate for Site Samples

- Distinct grouping of Area A wells – pyrite oxidation signal
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping

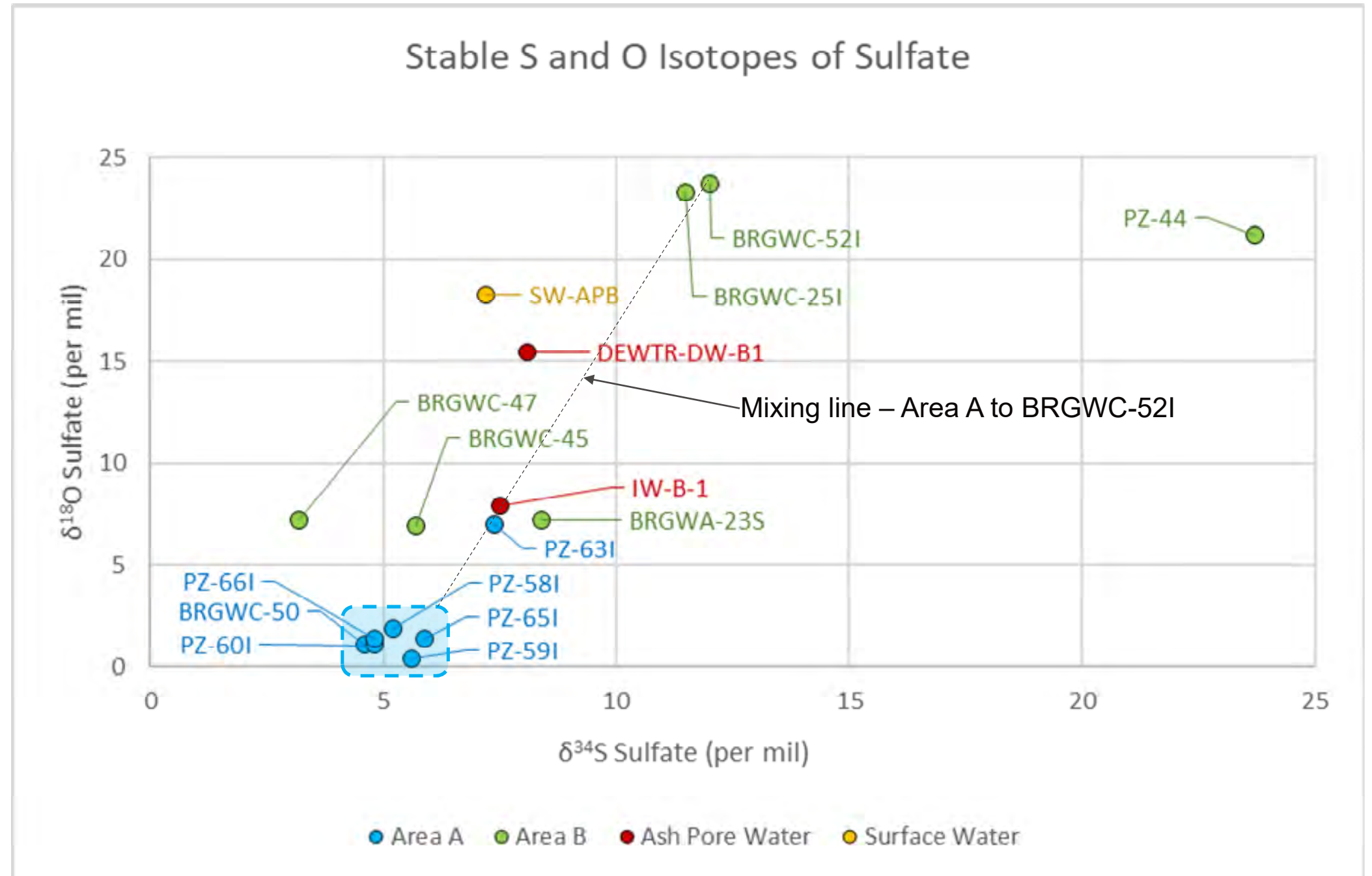


Figure 5
Stable S Isotopes and Sulfate Concentrations for Site Samples

- Distinct grouping of Area A wells – highest sulfate concentrations
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping

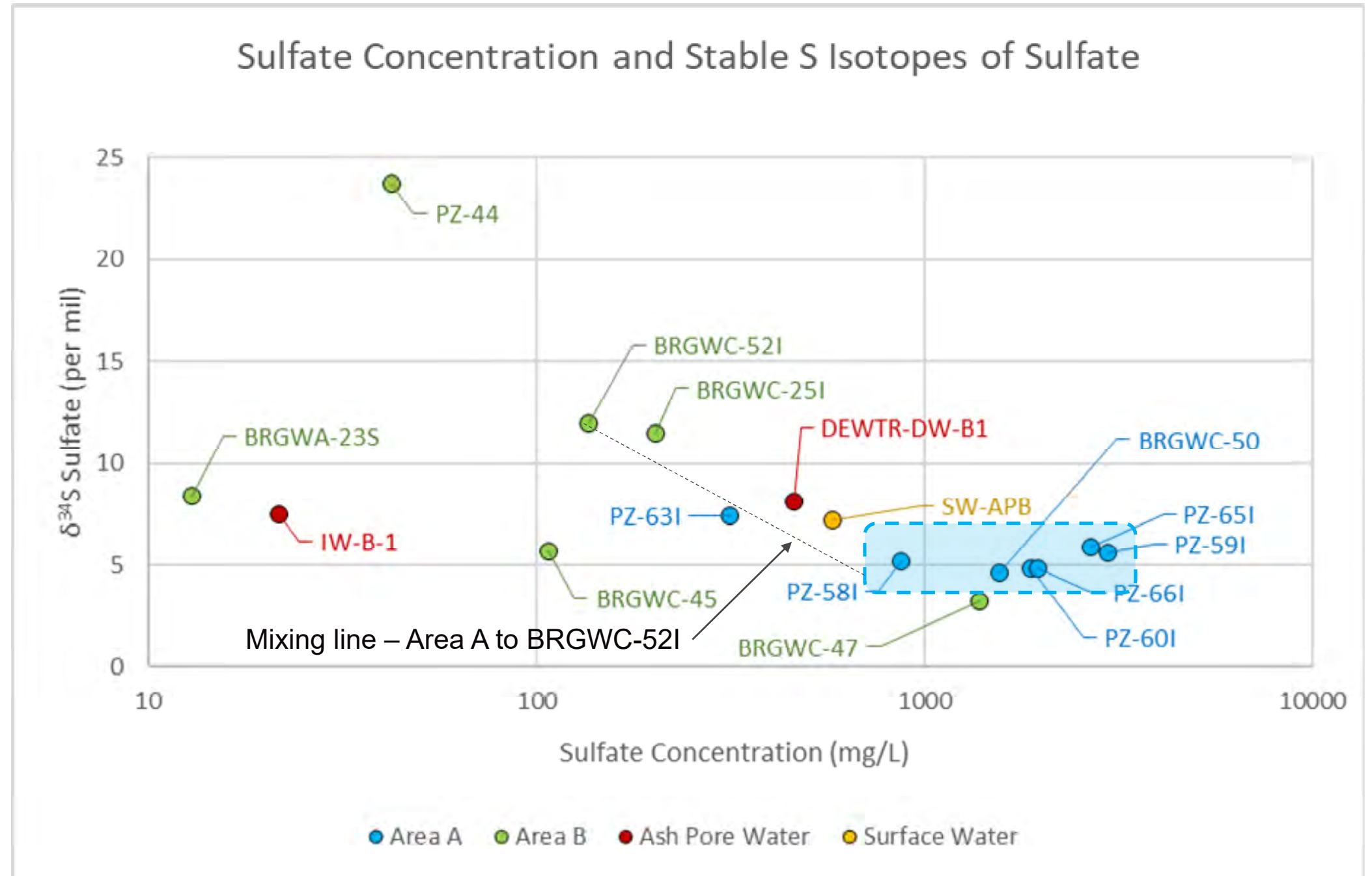


Figure 6
Stable O Isotopes and Sulfate Concentrations of Site Samples

- Distinct grouping of Area A wells – highest sulfate concentrations
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping

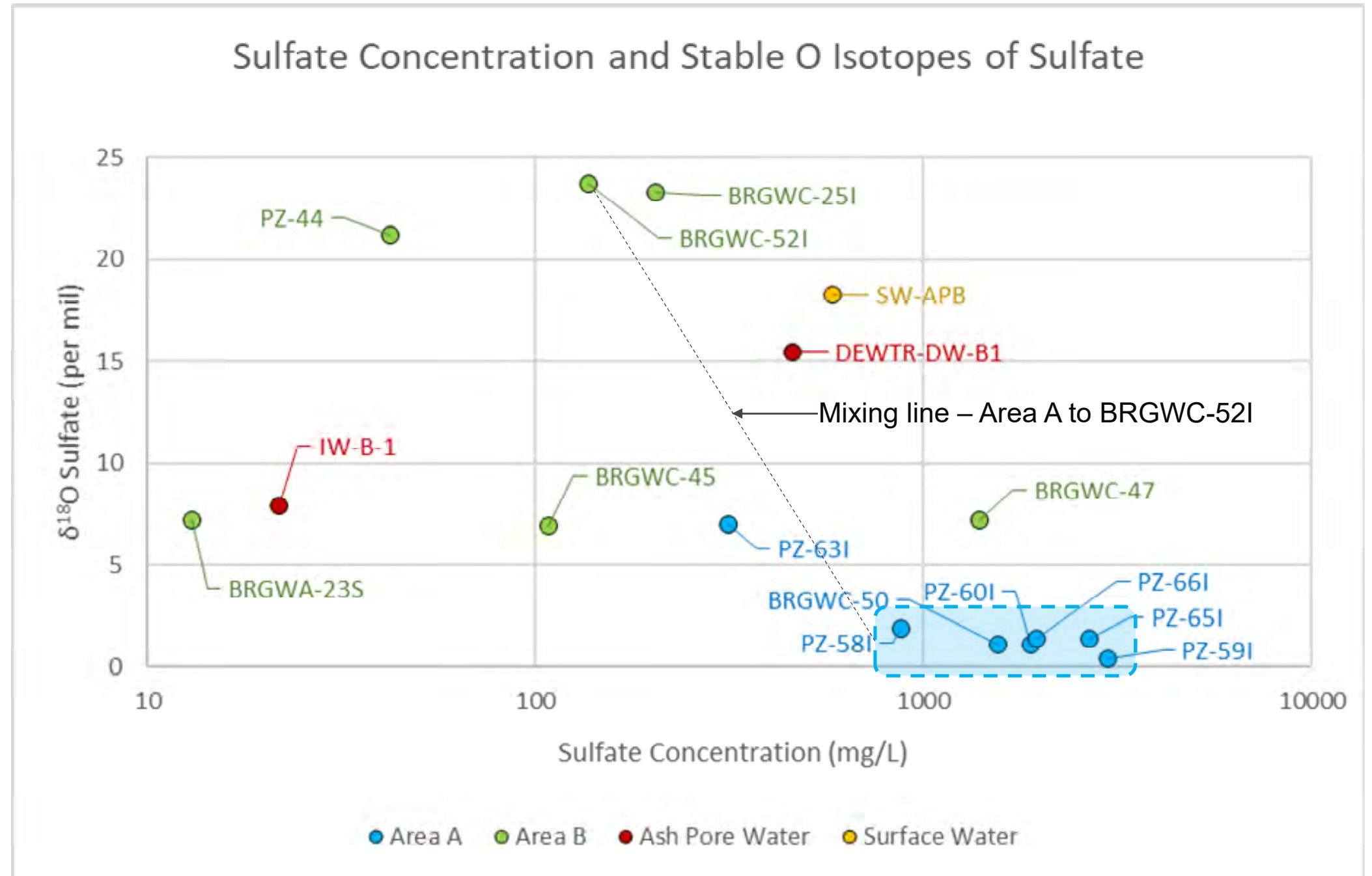
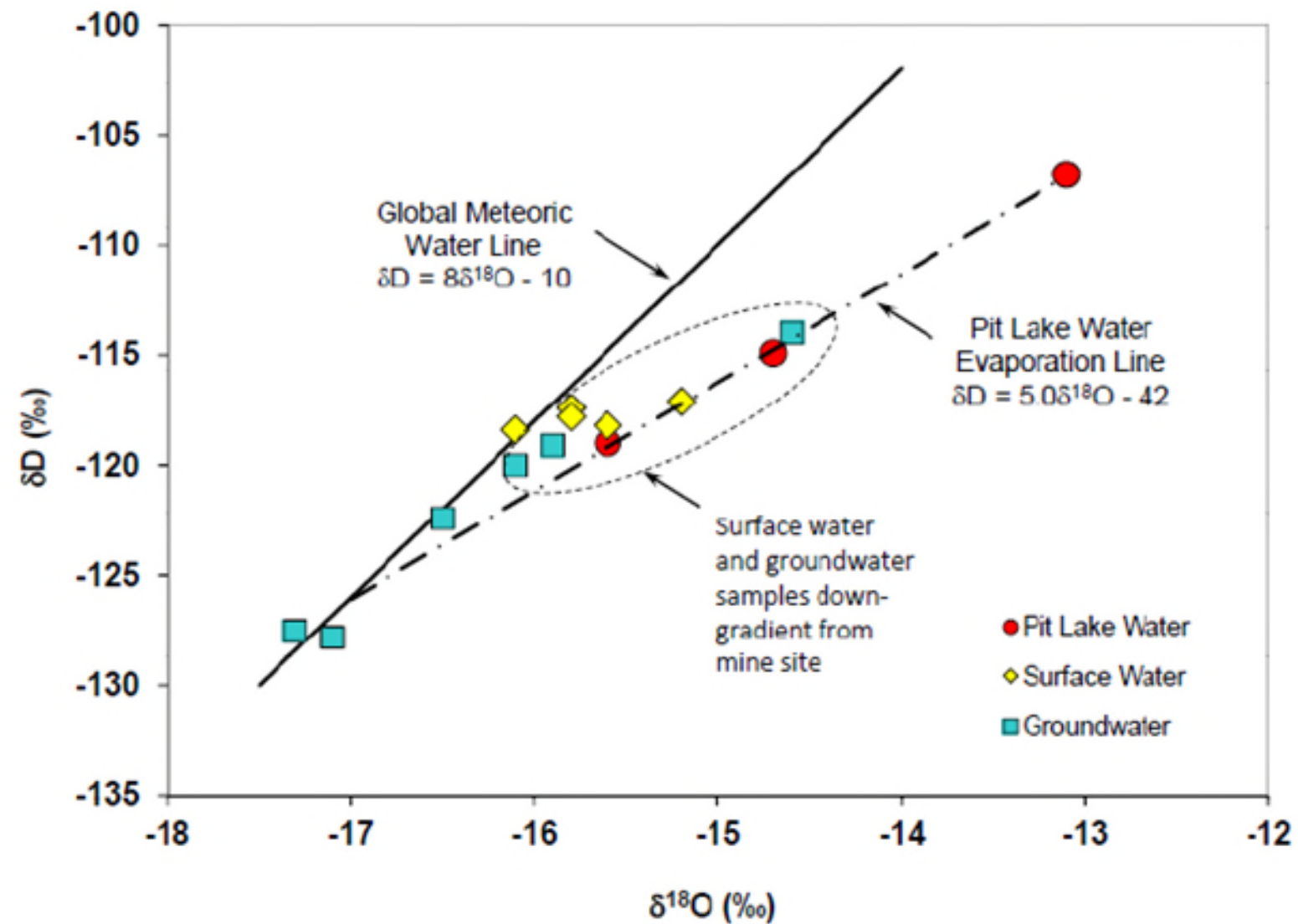


Figure 7
Example Stable O and H Isotopes of Water

Stable O and H isotopes of water:

- Stable O and H isotopes of water provides information on provenance of water or primary source of groundwater recharge – summer rain versus winter snow
- Stable O and H isotopes of water can also be used to identify water from an evaporated source – water in ash basin ponds may be more evaporated compared with groundwater

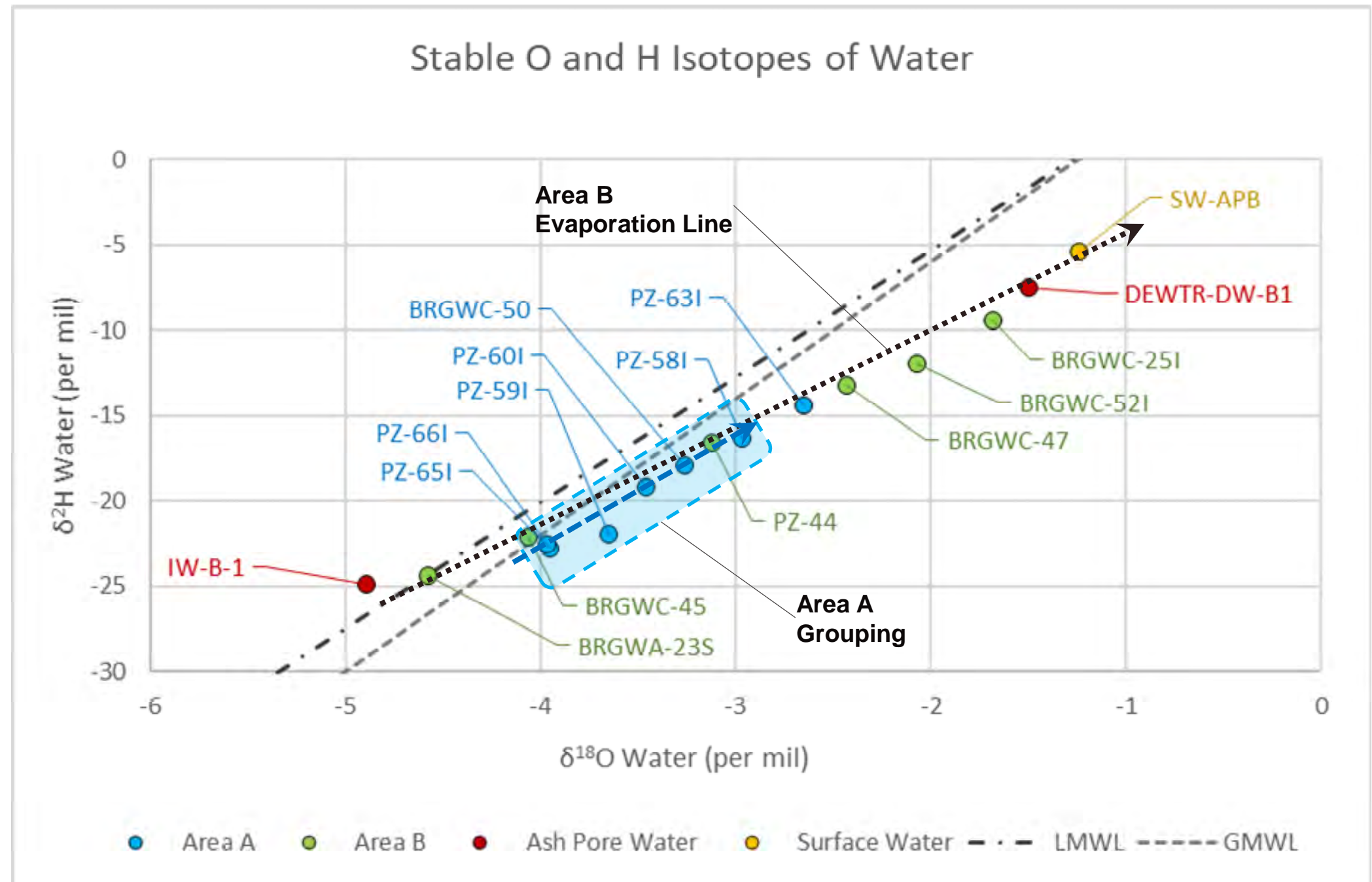
Example stable O and H isotopes of water diagram



This is an example plot from another site used here to illustrate this isotopic technique

Figure 8
Stable O and H Isotopes of Water for Site Samples

- Distinct grouping of Area A wells
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Increasing evaporation signal observed for Area B Wells
- Surface water sample SW-APB most evaporated



- Local meteoric water line (LMWL) based on precipitation samples collected at Panola Mount, GA (Kendall and Coplen 2001)



Attachment A

Laboratory Analytical Reports

Page: 1 of 2
 Project # _____
 Quote #: _____
 COC Number (1): _____
 PO Number: _____

Chain of Custody and Analytical Request

Stratum Reservoir (Isotech)
 Sample Receiving
 1308 Parkland Ct
 Champaign, IL 61821-1826
 Contact: Margaret Gentile (*Margy*)

Client Name: Arcadis Phone # 510 432 6251
 Project/Site Name: Plant Branch Ash Ponds - BCD Additional Fax # _____

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Collected By: *J. Bertoldi* ACC Send Results To: <Margaret.Gentile@arcadis.com>

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive (if yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Z										Preservative Type (6)	Comments Note: extra sample is required for sample specific QC Task Code: BRA-CCR-OTH-20230424			
									Isotopes														
BRA-BR6WA-235	04/24/23	0940	G	Y	WG			1	✓														field pH = 5.55
BRA-P2-66I	04/24/23	1210	G	Y	WG			1	✓														field pH = 5.72
BRA-P2-59I	04/24/23	1336	G	Y	WG			1	✓														field pH = 3.70 (Tim 1336)
BRA-P2-65I	04/24/23	1715	G	Y	WG			1	✓														field pH = 4.22
BRA-BR6WL-45	04/24/23	1825	G	Y	WG			1	✓														field pH = 5.90
BRA-P2-58I	04/25/23	0940	G	Y	WG			1	✓														field pH = 3.93
BRA-P2-60I	04/25/23	1050	G	Y	WG			1	✓														field pH = 4.58
BRA-BR6WL-50	04/25/23	1315	G	Y	WG			1	✓														field pH = 5.09
BRA-P2-63I	04/25/23	1500	G	Y	WG			1	✓														field pH = 5.59
BRA-APBLD-FD-02	04/25/23	---	G	Y	WG/3			1	✓														field pH = ---

Chain of Custody Signatures				TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: _____ Specify: _____ (Subject to Surcharge)			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	Fax Results: [] Yes [x] No	
1 <i>M. J. ...</i>	4/26/23	1500	1 <i>Fedex</i>	4/20/23	1500	Select Deliverable: [] C of A [] QC Summary [] level 1 [x] Level 2 [] Level 3 [] Level 4	
2			2 <i>Les Schluter / SR Isotech</i>	4/27/23	9:10	Additional Remarks:	
3			3			For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: <i>3.5</i> °C	
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).						Sample Collection Time Zone: [x] Eastern [] Pacific [] Central [] Mountain [] Other:	

- 1.) Chain of Custody Number = Client Determined
- 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
- 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix *w=water*

7.) KNOWN OR POSSIBLE HAZARDS RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA metals Pb = Lead	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	Listed Waste LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	Other OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____ _____ _____	Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.) _____ _____ _____
---	--	--	--	--

Page: 2 of 2
 Project # _____
 Quote #: _____
 COC Number ⁽¹⁾: _____
 PO Number: _____

Chain of Custody and Analytical Request

Stratum Reservoir (Isotech)
 Sample Receiving
 1308 Parkland Ct
 Champaign, IL 61821-1826

Contact: Margaret Gentile *(Margy)*

Work Order Number: _____

Client Name: Arcadis
 Phone # 510 432 6251
 Project/Site Name: Plant Branch Ash Ponds - BCD Additional
 Fax # _____

Collected By: *J. Berz* ACC
 Send Results To: <Margaret.Gentile@arcadis.com>

Sample ID
** For composites - indicate start and stop date/time*

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military (hhmm))	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Radiactive (if yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	Isotopes	Preservative Type (6)	Comments
BRA- BR6WC-25I	04/24/23	1339	G	Y	WG			1	✓		field pH = 6.25
BRA- BR6WC-52I	04/24/23	1538	G	Y	WG			1	✓		field pH = 6.63
BRA- IW-B-1	04/24/23	1138	G	Y	WG			1	✓		field pH = 6.08
BRA- PZ-44	04/25/23	1012	G	Y	WG			1	✓		field pH = 6.24
BRA- DEWTR-DW-B1	04/25/23	1405	G	Y	WG			1	✓		field pH = 6.64
BRA- BR6WC-47	04/25/23	1531	G	Y	WG			1	✓		field pH = 5.64
BRA- SW-APB	04/25/23	1620	G	Y	WG			1	✓		field pH = 7.49
BRA- APBCD-FD-03	04/25/23	---	G	Y	WG <i>MS</i>			1	✓		field pH = ---
BRA- APBCD-FD-01	04/24/23	---	G	Y	WG <i>MS</i>			1	✓		field pH = ---
BRA-			G	Y	WG						field pH =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>J. Berz</i>	4/26/23	1500	<i>Fedy</i>	4/26/23	1500
			Les Schluter / SR Isotech		<i>4-27-23 9:10</i>

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [] Yes [x] No

Select Deliverable: [] C of A [] QC Summary [] level 1 [x] Level 2 [] Level 3 [] Level 4

Additional Remarks:

For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: 3.5 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [] Pacific [] Central [] Mountain [] Other:

- Chain of Custody Number = Client Determined
- QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
- Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix *W=water*

7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other	Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
RCRA Metals As = Arsenic Hg = Mercury Ba = Barium Se = Selenium Cd = Cadmium Ag = Silver Cr = Chromium MR = Misc. RCRA metals Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____	
	TSCA Regulated PCB = Polychlorinated biphenyls			

Lab #: 868656 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWA-23S Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 9:40 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -24.4 ‰ relative to VSMOW

δ^{18} O of water ----- -4.58 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 8.4 ‰ relative to VCDT

δ^{18} O of sulfate ----- 7.2 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868657 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-P2-66I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 12:10 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -22.5 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -3.97 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 4.8 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 1.4 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868658 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-P2-59I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 13:36 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -21.9 ‰ relative to VSMOW

δ^{18} O of water ----- -3.65 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 5.6 ‰ relative to VCDT

δ^{18} O of sulfate ----- 0.4 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868659 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-P2-65I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 17:15 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -22.8 ‰ relative to VSMOW

δ^{18} O of water ----- -3.95 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 5.9 ‰ relative to VCDT

δ^{18} O of sulfate ----- 1.4 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868660 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWC-45 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 18:25 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -22.1 ‰ relative to VSMOW

δ^{18} O of water ----- -4.06 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 5.7 ‰ relative to VCDT

δ^{18} O of sulfate ----- 6.9 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868661 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-P2-581 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 9:40 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -16.3 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -2.97 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 5.2 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 1.9 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868662 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-P2-60I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 10:50 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -19.2 ‰ relative to VSMOW

δ^{18} O of water ----- -3.46 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 4.8 ‰ relative to VCDT

δ^{18} O of sulfate ----- 1.1 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868663 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWC-50 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 13:15 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -17.9 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -3.26 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 4.6 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 1.1 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868664 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-PZ-63I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 15:00 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -14.4 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -2.65 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 7.4 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 7.0 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868665 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-APBCD-FD-02 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -19.7 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -3.32 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 4.8 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 1.1 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868666 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWC-25I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 13:39 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -9.4 ‰ relative to VSMOW

δ^{18} O of water ----- -1.68 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 11.5 ‰ relative to VCDT

δ^{18} O of sulfate ----- 23.3 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868667 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWC-52I Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 15:38 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -11.9 ‰ relative to VSMOW

δ^{18} O of water ----- -2.07 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 12.0 ‰ relative to VCDT

δ^{18} O of sulfate ----- 23.7 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868668 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-IW-B-1 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 11:38 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -24.9 ‰ relative to VSMOW

δ^{18} O of water ----- -4.89 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 7.5 ‰ relative to VCDT

δ^{18} O of sulfate ----- 7.9 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868669 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-PZ-44 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 10:12 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -16.6 ‰ relative to VSMOW

δ^{18} O of water ----- -3.12 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 23.7 ‰ relative to VCDT

δ^{18} O of sulfate ----- 21.2 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868670 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-DEWTR-DW-B1 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 14:05 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -7.5 ‰ relative to VSMOW

δ^{18} O of water ----- -1.50 ‰ relative to VSMOW

Tritium content of water ----- na

δ^{13} C of DIC ----- na

14 C content of DIC ----- na

δ^{15} N of nitrate ----- na

δ^{18} O of nitrate ----- na

δ^{34} S of sulfate ----- 8.1 ‰ relative to VCDT

δ^{18} O of sulfate ----- 15.5 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868671 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-BRGWC-47 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 15:31 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -13.2 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -2.43 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 3.2 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 7.2 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868672 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-SW-APB Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 16:20 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -5.4 ‰ relative to VSMOW
 δ^{18} O of water ----- -1.24 ‰ relative to VSMOW
Tritium content of water ----- na
 δ^{13} C of DIC ----- na
 14 C content of DIC ----- na
 δ^{15} N of nitrate ----- na
 δ^{18} O of nitrate ----- na
 δ^{34} S of sulfate ----- 7.2 ‰ relative to VCDT
 δ^{18} O of sulfate ----- 18.3 ‰ relative to VSMOW
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868673 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-APBCD-FD-03 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/25/2023 Date Received: 4/27/2023 Date Reported: 5/22/2023

δ D of water ----- -5.7 ‰ relative to VSMOW
 δ^{18} O of water ----- -1.27 ‰ relative to VSMOW
Tritium content of water ----- na
 δ^{13} C of DIC ----- na
 14 C content of DIC ----- na
 δ^{15} N of nitrate ----- na
 δ^{18} O of nitrate ----- na
 δ^{34} S of sulfate ----- 7.1 ‰ relative to VCDT
 δ^{18} O of sulfate ----- 18.9 ‰ relative to VSMOW
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 868674 Job #: 54372 IS-105648 Co. Job#:
Sample Name: BRA-APBCD-FD-01 Co. Lab#:
Company: Arcadis U.S., Inc.
API/Well:
Container: 125ml bottle
Field/Site Name: Plant Branch Ash Ponds - BCD Additional / 30178565.00001
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 4/24/2023 Date Received: 4/27/2023 Date Reported: 5/22/2023

δD of water ----- -11.7 ‰ relative to VSMOW

$\delta^{18}O$ of water ----- -1.80 ‰ relative to VSMOW

Tritium content of water ----- na

$\delta^{13}C$ of DIC ----- na

^{14}C content of DIC ----- na

$\delta^{15}N$ of nitrate ----- na

$\delta^{18}O$ of nitrate ----- na

$\delta^{34}S$ of sulfate ----- 11.9 ‰ relative to VCDT

$\delta^{18}O$ of sulfate ----- 23.5 ‰ relative to VSMOW

Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



May 10, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Order: 619768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 26, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples preserved upon arrival 619768012(BRA-BRGWC-521), 619768013(BRA-IW-B-1).

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 619768 GEL Work Order: 619768

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWA-23S Project: GPCC00101
Sample ID: 619768001 Client ID: GPCC001
Matrix: WG
Collect Date: 24-APR-23 09:40
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.55			SU			EOS1	04/24/23	0940	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.59	0.0670	0.200	mg/L		1	JLD1	04/26/23	1822	2419737	2
Fluoride	J	0.0690	0.0330	0.100	mg/L		1					
Sulfate		13.0	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.0454	0.0260	0.0750	mg/L	1.00	5	SKJ	05/05/23	1451	2420021	3
Calcium		6.57	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		91.0	2.38	10.0	mg/L			CH6	04/27/23	1533	2419973	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-66I	Project: GPCC00101
Sample ID: 619768002	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-APR-23 12:10	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.72			SU			EOS1	04/24/23	1210	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1960	33.3	100	mg/L		250	JLD1	04/27/23	0848	2419737	2
Chloride		11.6	0.335	1.00	mg/L		5	JLD1	04/26/23	1851	2419737	3
Fluoride	U	ND	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		223	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1612	2420021	4
Boron		0.134	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1628	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2860	23.8	100	mg/L			CH6	05/01/23	1312	2421000	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-66I
Sample ID: 619768002

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I	Project: GPCC00101
Sample ID: 619768003	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-APR-23 13:36	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.70			SU			EOS1	04/24/23	1336	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		38.7	0.670	2.00	mg/L		10	JLD1	04/26/23	1921	2419737	2
Fluoride		2.33	0.330	1.00	mg/L		10					
Sulfate		2970	33.3	100	mg/L		250	JLD1	04/27/23	0918	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		274	0.800	2.00	mg/L	1.00	10	SKJ	05/05/23	1500	2420021	4
Boron		0.0588	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1630	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4190	23.8	100	mg/L			CH6	05/01/23	1312	2421000	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-59I
Sample ID: 619768003

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-65I Project: GPCC00101
Sample ID: 619768004 Client ID: GPCC001
Matrix: WG
Collect Date: 24-APR-23 17:15
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.22			SU			EOS1	04/24/23	1715	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		31.1	0.335	1.00	mg/L		5	JLD1	04/26/23	1951	2419737	2
Fluoride		1.50	0.165	0.500	mg/L		5	JLD1	04/27/23	0948	2419737	3
Sulfate		2680	33.3	100	mg/L		250	JLD1	04/27/23	0948	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0299	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1632	2420021	4
Calcium		242	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1616	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3530	23.8	100	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-65I
Sample ID: 619768004

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-45	Project: GPCC00101
Sample ID: 619768005	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-APR-23 18:25	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.90			SU			EOS1	04/24/23	1825	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	04/27/23	1018	2419737	2
Chloride		18.3	0.335	1.00	mg/L		5	JLD1	04/26/23	2021	2419737	3
Sulfate		108	3.33	10.0	mg/L		25	JLD1	04/27/23	1048	2419737	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0403	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1633	2420021	5
Calcium		32.3	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		250	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	619768005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-58I	Project: GPCC00101
Sample ID: 619768006	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-APR-23 09:40	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.93			SU			EOS1	04/25/23	0940	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.3	0.335	1.00	mg/L		5	JLD1	04/26/23	2051	2419737	2
Fluoride		0.926	0.165	0.500	mg/L		5					
Sulfate		871	13.3	40.0	mg/L		100	JLD1	04/27/23	2318	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.435	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1635	2420021	4
Calcium		145	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1340	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I	Project: GPCC00101
Sample ID: 619768007	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-APR-23 10:50	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.58			SU			EOS1	04/25/23	1050	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1890	33.3	100	mg/L		250	JLD1	04/27/23	2348	2419737	2
Chloride		26.9	0.335	1.00	mg/L		5	JLD1	04/26/23	2121	2419737	3
Fluoride		1.30	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.294	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1637	2420021	4
Calcium		284	0.800	2.00	mg/L	1.00	10	SKJ	05/05/23	1502	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2790	23.8	100	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 619768007

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 619768008 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 13:15
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.09			SU			EOS1	04/25/23	1315	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1560	26.6	80.0	mg/L		200	JLD1	04/28/23	0117	2419737	2
Chloride		16.1	0.335	1.00	mg/L		5	JLD1	04/26/23	2151	2419737	3
Fluoride	J	0.235	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.355	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1643	2420021	4
Calcium		218	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2060	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I	Project: GPCC00101
Sample ID: 619768009	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-APR-23 15:00	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.59			SU			EOS1	04/25/23	1500	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		315	3.33	10.0	mg/L		25	JLD1	04/28/23	1015	2419737	2
Fluoride		0.101	0.0330	0.100	mg/L		1	JLD1	04/28/23	0147	2419737	3
Chloride		6.44	0.335	1.00	mg/L		5	JLD1	04/26/23	2220	2419737	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.741	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1645	2420021	5
Calcium		51.6	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		469	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 619768009

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-02	Project: GPCC00101
Sample ID: 619768010	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-APR-23 12:00	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.1	0.670	2.00	mg/L		10	JLD1	04/28/23	0247	2419737	1
Sulfate		1610	26.6	80.0	mg/L		200	JLD1	04/28/23	0317	2419737	2
Fluoride		0.363	0.0330	0.100	mg/L		1	JLD1	04/26/23	2250	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.369	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1647	2420021	4
Calcium		221	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2080	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I Project: GPCC00101
Sample ID: 619768011 Client ID: GPCC001
Matrix: WG
Collect Date: 24-APR-23 13:39
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.25			SU			EOS1	04/24/23	1339	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.94	0.0670	0.200	mg/L		1	JLD1	04/27/23	0020	2419737	2
Fluoride		0.222	0.0330	0.100	mg/L		1	JLD1	04/27/23	0020	2419737	2
Sulfate		204	3.33	10.0	mg/L		25	JLD1	04/28/23	0347	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		66.0	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1649	2420021	4
Boron		1.49	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1618	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		389	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 619768011

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I Project: GPCC00101
Sample ID: 619768012 Client ID: GPCC001
Matrix: WG
Collect Date: 24-APR-23 15:38
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.63			SU			EOS1	04/24/23	1538	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.85	0.0670	0.200	mg/L		1	JLD1	04/27/23	0050	2419737	2
Fluoride	J	0.0478	0.0330	0.100	mg/L		1	JLD1	04/28/23	0417	2419737	3
Sulfate		137	3.33	10.0	mg/L		25	JLD1	04/28/23	0417	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		42.4	0.0800	0.200	mg/L	1.00	1	SKJ	05/05/23	1504	2420021	4
Boron		1.49	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1620	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		287	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 619768012

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-IW-B-1	Project: GPCC00101
Sample ID: 619768013	Client ID: GPCC001
Matrix: WG	
Collect Date: 24-APR-23 11:38	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.08			SU			EOS1	04/24/23	1138	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.850	0.0670	0.200	mg/L		1	JLD1	04/27/23	0220	2419737	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		21.8	0.266	0.800	mg/L		2	JLD1	04/28/23	0546	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.378	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1653	2420021	4
Calcium		51.3	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		217	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 619768014 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 10:12
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.24			SU			EOS1	04/25/23	1012	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		42.4	1.33	4.00	mg/L		10	JLD1	04/28/23	0716	2419737	2
Chloride		5.98	0.0670	0.200	mg/L		1	JLD1	04/27/23	0249	2419737	3
Fluoride	J	0.0659	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1622	2420021	4
Calcium		25.5	0.0800	0.200	mg/L	1.00	1	SKJ	05/03/23	1659	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		168	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-PZ-44
Sample ID: 619768014

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-DEWTR-DW-B1 Project: GPCC00101
Sample ID: 619768015 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 14:05
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.64			SU			EOS1	04/25/23	1405	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0716	0.0330	0.100	mg/L		1	JLD1	04/27/23	0319	2419737	2
Chloride		33.1	3.35	10.0	mg/L		50	JLD1	04/28/23	0746	2419737	3
Sulfate		460	6.65	20.0	mg/L		50					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.68	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1701	2420021	4
Calcium		152	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		848	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 619768016 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 15:31
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.64			SU			EOS1	04/25/23	1531	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1390	13.3	40.0	mg/L		100	JLD1	04/28/23	0816	2419737	2
Chloride		4.68	0.335	1.00	mg/L		5	JLD1	04/27/23	0349	2419737	3
Fluoride	U	ND	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.716	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1703	2420021	4
Calcium		334	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1990	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-SW-APB Project: GPCC00101
Sample ID: 619768017 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 16:20
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.49			SU			EOS1	04/25/23	1620	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		34.7	3.35	10.0	mg/L		50	JLD1	04/28/23	0846	2419737	2
Sulfate		581	6.65	20.0	mg/L		50	JLD1	04/27/23	0419	2419737	3
Fluoride		0.702	0.0330	0.100	mg/L		1	JLD1	04/27/23	0419	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.50	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1705	2420021	4
Calcium		151	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		868	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 619768018 Client ID: GPCC001
Matrix: WG
Collect Date: 25-APR-23 12:00
Receive Date: 26-APR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.685	0.0330	0.100	mg/L		1	JLD1	04/27/23	0449	2419737	1
Chloride		33.8	3.35	10.0	mg/L		50	JLD1	04/28/23	0915	2419737	2
Sulfate		570	6.65	20.0	mg/L		50					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.59	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1707	2420021	3
Calcium		162	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		860	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		
3	SW846 3005A/6020B		
4	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Branch CCR Groundwater Compliance APBCD

Client Sample ID: BRA-APBCD-FD-01	Project: GPCC00101
Sample ID: 619768019	Client ID: GPCC001
Matrix: WG	
Collect Date: 25-APR-23 12:00	
Receive Date: 26-APR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.95	0.0670	0.200	mg/L		1	JLD1	04/27/23	0619	2419737	1
Fluoride		0.215	0.0330	0.100	mg/L		1					
Sulfate		222	3.33	10.0	mg/L		25	JLD1	04/28/23	0945	2419737	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.54	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1709	2420021	3
Calcium		66.0	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		392	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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QC Summary

Report Date: May 10, 2023

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Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Joju Abraham

Workorder: 619768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2419737										
QC1205386308	619768001	DUP									
Chloride		2.59		2.61	mg/L	0.573		(0%-20%)	JLD1	04/27/23	07:48
Fluoride	J	0.0690	J	0.0425	mg/L	47.5	^	(+/-0.100)			
Sulfate		13.0		13.0	mg/L	0.0054		(0%-20%)			
QC1205386310	619768012	DUP									
Chloride		5.85		5.85	mg/L	0.0342		(0%-20%)		04/27/23	01:20
Fluoride	J	0.0478	J	0.0550	mg/L	14	^	(+/-0.100)			
Sulfate		137		138	mg/L	0.874		(0%-20%)		04/28/23	04:47
QC1205386307	LCS										
Chloride	5.00			4.87	mg/L			97.4 (90%-110%)		04/27/23	07:18
Fluoride	2.50			2.53	mg/L			101 (90%-110%)			
Sulfate	10.0			9.84	mg/L			98.4 (90%-110%)			
QC1205386306	MB										
Chloride			U	ND	mg/L					04/27/23	06:48
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205386309	619768001	PS									
Chloride	5.00	2.59		7.49	mg/L			98 (90%-110%)		04/27/23	08:18

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QC Summary

Workorder: 619768

Page 2 of 5

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2419737										
Fluoride	2.50	J	0.0690	2.51	mg/L		97.7	(90%-110%)	JLD1	04/27/23	08:18
Sulfate	10.0		13.0	23.1	mg/L		101	(90%-110%)			
QC1205386311	619768012 PS										
Chloride	5.00		5.85	11.0	mg/L		102	(90%-110%)		04/27/23	01:50
Fluoride	2.50	J	0.0478	2.48	mg/L		97.5	(90%-110%)			
Sulfate	10.0		5.47	15.7	mg/L		103	(90%-110%)		04/28/23	05:16
Metals Analysis - ICPMS											
Batch	2420021										
QC1205386950	LCS										
Boron	0.100			0.114	mg/L		114	(80%-120%)	SKJ	05/03/23	15:56
Calcium	2.00			2.15	mg/L		108	(80%-120%)			
QC1205386949	MB										
Boron			U	ND	mg/L					05/03/23	15:54
Calcium			U	ND	mg/L						
QC1205386951	619768001 MS										
Boron	0.100	J	0.0454	0.159	mg/L		114	(75%-125%)		05/05/23	14:53
Calcium	2.00		6.57	8.65	mg/L		104	(75%-125%)			
QC1205386952	619768001 MSD										
Boron	0.100	J	0.0454	0.153	mg/L	3.75	108	(0%-20%)		05/05/23	14:55
Calcium	2.00		6.57	8.87	mg/L	2.57	115	(0%-20%)			

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QC Summary

Workorder: 619768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2420021											
QC1205386953 619768001 SDILT											
Boron	J	9.09	U	ND	ug/L	N/A		(0%-20%)	SKJ	05/05/23	14:59
Calcium		1310		296	ug/L	12.6		(0%-20%)			
Solids Analysis											
Batch 2419973											
QC1205386823 619628002 DUP											
Total Dissolved Solids		1330		1390	mg/L	4.41		(0%-5%)	CH6	04/27/23	15:33
QC1205386821 LCS											
Total Dissolved Solids	300			304	mg/L		101	(95%-105%)		04/27/23	15:33
QC1205386820 MB											
Total Dissolved Solids			U	ND	mg/L					04/27/23	15:33
Batch 2421000											
QC1205388849 619868005 DUP											
Total Dissolved Solids		262		263	mg/L	0.381		(0%-5%)	CH6	05/01/23	13:12
QC1205388846 LCS											
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		05/01/23	13:12
QC1205388847 LCSD											
Total Dissolved Solids	300			303	mg/L	0.662	101	(0%-5%)		05/01/23	13:12
QC1205388845 MB											
Total Dissolved Solids			U	ND	mg/L					05/01/23	13:12
Batch 2421004											
QC1205388854 619768014 DUP											
Total Dissolved Solids		168		174	mg/L	3.51		(0%-5%)	CH6	05/01/23	13:53

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QC Summary

Workorder: 619768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2421004										
QC1205388853	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)	CH6	05/01/23	13:53
QC1205388852	MB										
Total Dissolved Solids			U	ND	mg/L					05/01/23	13:53

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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QC Summary

Workorder: 619768

Page 5 of 5

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
----------	-----	--------	------	----	-------	------	------	-------	-------	------	------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 619768**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2420021

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2420018

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
619768001	BRA-BRGWA-23S
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I
619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205386949	Method Blank (MB) ICP-MS
1205386950	Laboratory Control Sample (LCS)
1205386953	619768001(BRA-BRGWA-23SL) Serial Dilution (SD)
1205386951	619768001(BRA-BRGWA-23SS) Matrix Spike (MS)
1205386952	619768001(BRA-BRGWA-23SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I), 619768010 (BRA-APBCD-FD-02), 619768011 (BRA-BRGWC-25I), 619768012 (BRA-BRGWC-52I), 619768013 (BRA-IW-B-1), 619768014 (BRA-PZ-44), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB), 619768018 (BRA-APBCD-FD-03) and 619768019 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 619768001 (BRA-BRGWA-23S) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	619768									
	001	002	003	004	006	007	008	009	010	011
Boron	5X	1X	1X	1X	5X	5X	5X	5X	5X	10X
Calcium	5X	5X	10X	5X	5X	10X	5X	5X	5X	5X

Analyte	619768							
	012	013	014	015	016	017	018	019
Boron	10X	5X	10X	10X	10X	10X	10X	10X
Calcium	1X	5X	1X	10X	10X	10X	10X	10X

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 31

Analytical Batch: 2419737

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
619768001	BRA-BRGWA-23S
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I

619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205386306	Method Blank (MB)
1205386307	Laboratory Control Sample (LCS)
1205386308	619768001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205386309	619768001(BRA-BRGWA-23S) Post Spike (PS)
1205386310	619768012(BRA-BRGWC-52I) Sample Duplicate (DUP)
1205386311	619768012(BRA-BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205386310 (BRA-BRGWC-52IDUP), 1205386311 (BRA-BRGWC-52IPS), 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768005 (BRA-BRGWC-45), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I), 619768010 (BRA-APBCD-FD-02), 619768011 (BRA-BRGWC-25I), 619768012 (BRA-BRGWC-52I), 619768013 (BRA-IW-B-1), 619768014 (BRA-PZ-44), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB), 619768018 (BRA-APBCD-FD-03) and 619768019 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50) and 619768016 (BRA-BRGWC-47) were diluted to minimize matrix effects on instrument performance. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768005 (BRA-BRGWC-45), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I) and 619768016 (BRA-BRGWC-47) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	619768									
	002	003	004	005	006	007	008	009	010	011
Chloride	5X	10X	5X	5X	5X	5X	5X	5X	10X	1X
Fluoride	5X	10X	5X	1X	5X	5X	5X	1X	1X	1X
Sulfate	250X	250X	250X	25X	100X	250X	200X	25X	200X	25X

Analyte	619768							
	012	013	014	015	016	017	018	019
Chloride	1X	1X	1X	50X	5X	50X	50X	1X
Fluoride	1X	1X	1X	1X	5X	1X	1X	1X
Sulfate	25X	2X	10X	50X	100X	50X	50X	25X

Sample Re-analysis

Sample 619768009 (BRA-PZ-63I) was re-analyzed to verify the result.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2419973

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
619768001	BRA-BRGWA-23S
1205386820	Method Blank (MB)
1205386821	Laboratory Control Sample (LCS)
1205386823	619628002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205386823 (Non SDG 619628002DUP).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2421000

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
1205388845	Method Blank (MB)
1205388846	Laboratory Control Sample (LCS)
1205388847	Laboratory Control Sample Duplicate (LCSD)
1205388849	619868005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and

procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 619768002 (BRA-PZ-66I) and 619768003 (BRA-PZ-59I).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2421004

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I
619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205388852	Method Blank (MB)
1205388853	Laboratory Control Sample (LCS)
1205388854	619768014(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768010 (BRA-APBCD-FD-02), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB) and 619768018 (BRA-APBCD-FD-03).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD Additional
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bristed ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)
 Dissolved C, F, SO4 EPA 300 _____
 TDS (not Field Filtered) SM 2540C _____
 Dissolved App III Metals* EPA 6020 _____
 NI _____

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (5)	Field Filtered (6)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Comments
						(7) Known or isotopic info (if yes, please supply)	(7) possible Hazards		
BRA-13R-GWA-235	04/24/23	0940	G	Y	WG			3	field pH = 5.55
BRA-PZ-66I	04/24/23	1210	G	Y	WG			3	field pH = 5.72
BRA-PZ-54J	04/24/23	1336	G	Y	WG			3	field pH = 3.70
BRA-PZ-65I	04/24/23	1715	G	Y	WG			3	field pH = 4.22
BRA-13R-6WC-45	04/24/23	1825	G	Y	WG			3	field pH = 5.90
BRA-PZ-58I	04/25/23	0940	G	Y	WG			3	field pH = 3.93
BRA-PZ-60I	04/25/23	1050	G	Y	WG			3	field pH = 4.58
BRA-13R-6WC-50	04/25/23	1315	G	Y	WG			3	field pH = 5.09
BRA-PZ-63I	04/25/23	1500	G	Y	WG			3	field pH = 5.59
BRA-APBCD-FD-02	04/25/23	---	G	Y	W			3	field pH = ---

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 4/26/23 Time 9:10
 _____ Date 4/26/23 Time 2:08

 3

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes), Waste code(s): _____
 Other: OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



Laboratories LLC

Chemistry | Radiochemistry | Radiobiology | Specialty Analytics

Chain of Custody and Analytical Request

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____

GEL Work Order Number: _____

Phone # 404-506-7116

Fax # _____

Client Name: GA Power
Project/Site Name: Plant Branch Ash Ponds - BCD Additional
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Google ACC

Send Results To: SCS & Geosyntec Contacts

Sample ID

* For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)
BRA-BRGWC-25 I	04/24/23	1339	G	Y	WG
BRA-BRGWC-52 I	04/24/23	1538	G	Y	WG
BRA-IW-B-1	04/24/23	1138	G	Y	WG
BRA-PZ-44	04/25/23	1012	G	Y	WG
BRA-DENWATR-DW-1	04/25/23	1405	G	Y	WG
BRA-PZ-47	04/25/23	1531	G	Y	WG
BRA-SW-A1PB	04/25/23	1620	G	Y	WS
BRA-APBCD-FD-03	04/25/23	---	G	Y	W
BRA-APBCD-FD-01	04/25/23	---	G	Y	W
BRA-					

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	4/26/23	9:41	<i>[Signature]</i>	4/26/23	9:10
<i>[Signature]</i>	4/26/23	4:26:23	<i>[Signature]</i>	4/26/23	2:08

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Centra. Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WO=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC SDG/AR/COC/Work Order: 619765 / 619768

Received By: [Signature] Date Received: 4/26/23

Carrier and Tracking Number: _____
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>4</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>Metallo BRA-BRLEC-10</u> <u>BRA-BRGLX-52E</u> <u>BRA-EL-B-1</u> If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>BRA-APBCD-FD01 collect date 4/24/23 on containers no time</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed): _____

List of current GEL Certifications as of 10 May 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780