



Prepared for

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

**2022 ANNUAL GROUNDWATER
MONITORING & CORRECTIVE ACTION
REPORT**

**GEORGIA POWER COMPANY
PLANT BRANCH ASH POND E (AP-E)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW8862

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CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Branch – Ash Pond E (AP-E) has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a-c) by a qualified groundwater scientist or engineer with Geosyntec Consultants. 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).



Whitney B. Law
Georgia Professional Engineer No. 36641

July 29, 2022
Date

EXECUTIVE SUMMARY

This summary of the *2022 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2021 through June 2022 at Georgia Power Company's (Georgia Power's) Plant Branch Ash Pond E (AP-E) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D) (herein referred to as the CCR Rule).

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 the five ash ponds (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 relocation of



Plant Branch and the Site

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

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

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

on groundwater conditions at the Site, an assessment monitoring program was established on November 13, 2019, and the Site entered into an assessment of corrective measures on July 21, 2022. During the 2022 annual 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 each sampling 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.

Groundwater monitoring sampling events for AP-E were conducted by Golder Associates in September 2021 and February 2022 for this annual reporting period. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and 40 CFR 257.95 (b) and (d)(1), these semi-annual events were combined events and included sampling and analysis of all Appendix III and Appendix IV constituents. Samples were collected and submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results through February 2022 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters in wells listed in the tables below.

On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

Appendix III Parameter³	September 2021
Boron	BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Calcium	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Chloride	BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Fluoride	BRGWC-38S
pH (lower limit)	BRGWC-33S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
Sulfate	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

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

Total Dissolved Solids (TDS)	BRGWC-317S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Appendix IV Parameter⁴	September 2021
Beryllium	BRGWC-38S
Cobalt	BRGWC-33S and BRGWC-38S

Appendix III Parameter	February 2022
Boron	BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Calcium	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Chloride	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Fluoride	BRGWC-38S
pH (lower limit)	BRGWC-33S, BRGWC-34S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
Sulfate	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Total Dissolved Solids (TDS)	BRGWC-17S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
Appendix IV Parameter	February 2022
Beryllium	BRGWC-38S
Cobalt	BRGWC-33S and BRGWC-38S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2021 through June 2022, the Site will continue in assessment monitoring and an evaluation of remedies will be presented in an Assessment of Corrective Measures (ACM) Report to be submitted in accordance with the requirements of 40 CFR 257.96. 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

ACM	Assessment of Corrective Measures
AP	ash pond
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
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.
PE	professional engineer
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
RPD	relative percent difference
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TWR	transitionally weathered rock
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2022 Annual Groundwater Monitoring & Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power) Plant Branch (Site) Ash Pond E (AP-E) for the reporting period of July 2021 through June 2022 (referred to herein as the reporting period).

To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the Federal Coal Combustion Residuals (CCR) Rule. For ease of reference, the Federal CCR Rule is cited within this report. Plant Branch ceased producing electricity prior to April 2015, and therefore, Ash Pond E is not subject to the USEPA CCR Rule. This report documents the activities completed to establish the groundwater monitoring program in accordance with GA EPD Rule 391-3-4-.10(6)(a).

Due to statistically significant increases (SSIs) of Appendix III parameters identified in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019), Georgia Power initiated an assessment monitoring program for AP-E on November 13, 2019. Statistically significant levels (SSLs) of Appendix IV parameters beryllium (Be) and cobalt (Co) were identified during the initial assessment monitoring event. Pursuant to 40 CFR 257.95 as adopted by 391-3-4-.10, an Alternate Source Demonstration (ASD) was prepared in July 2020 in response to the SSLs identified for Be and Co in groundwater monitoring wells (Golder 2020a). GA EPD issued a letter of non-concurrence associated with the ASD submittal in April 2022 and Georgia Power subsequently initiated an assessment of corrective measures program for AP-E on July 21, 2022. SSLs of Be and Co have been observed in all assessment monitoring events since 2019 and documented in the annual groundwater monitoring and corrective action reports (Golder, 2020b and 2021). Pursuant to 40 CFR 257.96(b), Georgia Power continues to monitor groundwater associated with AP-E in accordance with the assessment monitoring program established for the unit in 2019, including annual and semiannual monitoring and reporting pursuant to 40 CFR 257.90 through 40 CFR 257.95 of the Federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the

north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash pond E is a valley-fill containment area formed by the construction of an earthen embankment dike at the eastern portion of the ash pond. Ash Pond E is located on the northwest corner of the Site surrounded by rural land on each side (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

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

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

1.2 Regional Geology & Hydrogeologic Setting

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

1.2.1 Regional and Site Geology

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

short horizontal distances. The bedrock underlying the saprolite is fine- to medium-grained, poorly jointed biotite-quartz-feldspar gneiss.

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

1.2.2 Hydrogeologic Setting

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

1.3 Groundwater Monitoring Well Network

In accordance with 40 CFR 257.91 of the CCR rule and 391-3-4-.10(6), a groundwater monitoring system was installed at AP-E that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. 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 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 “T” indicates TWR/PWR and the upper fractured mantle of bedrock (transition zone), and “D” indicates a screened zone in the deeper bedrock. Well construction details for the

monitoring network are listed in **Table 1**. The locations of the groundwater monitoring wells and piezometers are shown on **Figure 2**.

Groundwater elevation measurements are collected across the entire Site (including AP-BCD and the area of the proposed new CCR landfill). These measurements are used to define groundwater flow direction and gradients and to understand potential changes related to seasonal fluctuations or site activities. The potentiometric surface maps for the September 2021 and January 2022 water level gauging events are provided in **Figures 3 and 4**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR 257.90(e)(3) and 391-3-4-.10(6), the following describes monitoring-related activities performed during this reporting period and discusses any change in status of the monitoring program.

2.1 Monitoring Well Installation and Maintenance

No additional groundwater monitoring wells or piezometers were installed during this reporting period. The groundwater monitoring system has remained the same since July 2021.

The well and piezometer networks are inspected during each groundwater monitoring event to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A § 12-5-134(5)(d)(vii)). Any issues identified with the wells (e.g., faded well identification signage, rusted locks and/or latches) are addressed before the following groundwater sampling event. The well inspection forms and inspection memoranda for the reporting period are provided in **Appendix A**. The Fall 2021 memorandum serves as the documentation for the five-year review pursuant to the Georgia Water Well Standards Act (Golder, 2022).

2.2 Assessment Monitoring

Pursuant to 40 CFR 257.94(e)(3), an assessment monitoring program was initiated for AP-E based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019.

Two groundwater monitoring events were conducted for this reporting period in September 2021 and February 2022 in accordance with 40 CFR 257.93 and GA EPD rule 391-3-4-.10(6)(a). The wells in the certified monitoring system for AP-E are tabulated in **Table 1**, and their locations are shown on **Figure 2**. A summary of groundwater wells sampled at AP-E during this reporting period is presented in **Table 2**. In addition to the detection monitoring well network, PB-7S was also sampled to evaluate the downgradient extent of Co in the vicinity of AP-E. The analytical results are included in **Appendix A**.

During the September 2021 and February 2022 semi-annual assessment monitoring events, groundwater samples from each monitoring well were collected and 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 these sampling events are provided in **Appendix A**.

3.0 SAMPLING METHODOLOGY & 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 semi-annual assessment monitoring program conducted at AP-E during this reporting period.

3.1 Groundwater Level Measurement

Prior to each sampling event, a synoptic round of depth to groundwater level measurements were recorded from all the wells and piezometers and used to calculate the corresponding groundwater elevations. The calculated groundwater elevations obtained in September 2021 and January 2022 for the two semiannual assessment monitoring events in this reporting period at AP-BCD and AP-E are presented in **Table 3**.

The groundwater elevation data were used to prepare potentiometric surface map for the September 2021 and February 2022 events, which are presented on **Figures 3** and **4**, respectively. The general direction of groundwater flow across AP-E is to the east-southeast. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

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

Hydraulic conductivity (K_h) values used in flow calculations range from 2.7 to 5.5 feet per day (ft/day) and were based on slug test data presented in the 2020 Hydrogeologic Assessment Report Revision 01 (Geosyntec, 2020). The highest observed K_h estimates from each well set were used, resulting in a conservatively high estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-E which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, and accounting for the averaged hydraulic gradient calculated between well pairs for the September 2021 and February 2022 events, horizontal flow velocities were calculated as below.

The approximate horizontal flow velocities associated with AP-E were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

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

where:

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

$$K_h = \text{Average hydraulic conductivity} \left(\frac{\text{feet}}{\text{day}} \right)$$

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

$$n_e = \text{Effective porosity}$$

The supporting calculations for the September 2021 and February 2022 semiannual events are presented in **Table 4A** and **Table 4B**, respectively. The tables also present the average hydraulic gradients calculated from the two measurement events. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. As presented on **Table 4A** and **Table 4B**, groundwater flow velocity at the site is approximately 0.17 ft/day across AP-E. The observed groundwater flow velocities calculated for this reporting period are generally consistent with expected velocities, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-E at Plant Branch.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected from the compliance monitoring well network using low-flow sampling procedures in accordance with 40 CFR 257.93(a), 3913-4-.10(6). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated and/or non-dedicated low-flow pneumatic bladder or peristaltic pumps were used to purge and sample the wells. All non-disposable equipment was decontaminated before use and between well locations.

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

- pH ± 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 Pace Analytical Services, LLC. (Pace Analytical) in Norcross, Georgia following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the September 2021 and February 2022 assessment monitoring events are provided in **Appendix A**.

3.4 Laboratory Analyses

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

The analytical results from the September 2021 and February 2022 monitoring events are summarized in **Table 5A** and **Table 5B**.

3.5 Quality Assurance & Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during each sampling event and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in laboratory-provided bottles and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Pace Analytical.

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. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate

recoveries and relative percent differences, post digestions spikes, laboratory and field duplicate relative percent difference (RPDs), field and equipment blanks, and reporting limits. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation reports are provided in **Appendix A** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III groundwater monitoring data was performed pursuant to 40 CFR 257.93 and 391-3-4-.10(6) and is summarized in the section below. In addition, pursuant to 40 CFR 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 September 2021 and February 2022 assessment monitoring events. The reports generated from the analyses are provided in **Appendix B**. The September 2021 and February 2022 data were statistically analyzed by Groundwater Stats Consulting (GSC).

4.1 Statistical Methods

The selected statistical method for AP-E was developed in accordance with 40 CFR 257.93(f) and 391-3-4-.10(6) 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, that 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 state and federal GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis package provided in **Appendix B** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to 40 CFR 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

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

constituent reported in the groundwater of a downgradient compliance 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 prediction limit, 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

For the Appendix IV constituents, parametric tolerance limits were used to calculate site specific background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the GWPS under GA EPD Rule 391-3-4-.10(6)(a).

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt (Co), lead (Pb), lithium (Li), and molybdenum (Mo). As described in 40 CFR 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under §141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Co: 0.006 mg/L;
 - (ii) Pb: 0.015 mg/L;
 - (iii) Li: 0.040 mg/L; and
 - (iv) Mo: 0.10 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

GA EPD revised the Rules for Solid Waste Management 391-3-4-.10(6) on February 22, 2022, to incorporate updated Federal GWPSs where an MCL has not been established, except when site-specific background concentrations of these constituents are higher. These levels were specified for cobalt, lead, lithium, and molybdenum as stated above.

Following the above federal and state rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient monitoring well. The confidence intervals are compared to both the state and federal GWPSs. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the established standard, an SSL exceedance is identified.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analyses conducted in September 2021 and February 2022, groundwater conditions have not returned to background and assessment monitoring should continue pursuant to 40 CFR 257.95(f). A detailed list of the noted exceedances is provided in **Appendix B**.

Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the state and federal GWPS for the September 2021 assessment monitoring event:

- Be: BRGWC-38S
- Co: BRGWC-33S and BRGWC-38S

Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the state and federal GWPS for the February 2022 assessment monitoring event:

- Be: BRGWC-38S
- Co: BRGWC-33S and BRGWC-38S

The semiannual statistical evaluation results are consistent with the 2021 reporting year statistical results.

5.0 NATURE AND EXTENT

5.1 Delineation Status

Delineation of the nature and extent of Be and Co SSLs will be completed pursuant to the initiation of an assessment of corrective measures program for AP-E on July 21, 2022. Lateral and vertical assessment wells have been identified for BRGWC-38S and BRGWC-33S for the delineation of Be and Co at the Site. These lateral and vertical assessment wells are PZ-54 and PZ-53D for well BRGWC-38S, and PZ-13S and PZ-52D for well BRGWC-33S. Since the installation of PZ-54, groundwater level has declined to within its screened interval and this well yields insufficient water for sampling. For these reasons, a new lateral assessment well will be installed for BRGWC-38S and the sampling data will be reported in the next semi-annual report. The existing well PZ-54 will be used for water level monitoring.

6.0 MONITORING PROGRAM STATUS

An assessment of corrective measures program was initiated on July 21, 2022. An Assessment of Corrective Measures evaluation will be completed in accordance with the requirements of 40 CFR 257.96.

Pursuant to 40 CFR 257.96(b), Georgia Power will continue to monitor the groundwater at AP-E in accordance with the assessment monitoring program regulations of 40 CFR 257.95 while corrective measures are evaluated to address SSL concentrations of Be and Co in monitoring well BRGWC-38S and Co in monitoring well BRGWC-33S.

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2022 Annual Groundwater Monitoring & Corrective Action Report* for Georgia Power's Plant Branch AP-E was prepared to fulfill the requirements of GA EPD Rules of Solid Waste Management 391-3-4-.10(6). The groundwater flow direction and rates interpreted during the September 2021 and February 2022 monitoring events are generally consistent with historical evaluations. Statistical evaluations of the groundwater monitoring data for the AP-E well network confirmed the continued presence of SSLs of Be and Co in well BRGWC-38S and Co in well BRGWC-33S above corresponding GWPSs. In accordance with GA EPD Rule 391-3-4-.10(6) and 40 CFR 257.96, Georgia Power has initiated an assessment of corrective measures program for the identified SSLs.

Georgia Power will continue to monitor AP-E groundwater under the assessment monitoring program and proceed with an evaluation of remedies to be presented in an Assessment of Corrective Measures (ACM) Report in accordance with the requirements of 40 CFR 257.96. The second semiannual assessment monitoring event is scheduled to occur in August 2022.

8.0 REFERENCES

- Geosyntec Consultants, 2020. Hydrogeologic Assessment Report Revision 01, Georgia Power - Plant Branch, Putnam County, Georgia. Submitted to Southern Company Services in November 2020.
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- Golder Associates, 2020b. 2020 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Plant Branch, Milledgeville, Georgia, July 2020.
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- Golder Associates, 2022. Memorandum, Plant Branch Unit AP-BCD and AP-E Well Maintenance and Repair Documentation, Georgia Power Plant Branch, Milledgeville, Georgia, January 2022.
- USEPA, 1996. Soil Guidance Manual
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TABLES

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

Well ID	Alternate Name	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽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	PZ-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	PZ-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	PZ-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	PZ-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	PZ-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWA-12S	PZ-12S	Upgradient BCD	3/4/2014	2557142.89	1164286.80	431.6	434.64	383.7	373.7	58.3	10
BRGWA-12I	PZ-12I	Upgradient BCD	2/20/2014	2557138.79	1164301.32	431.5	434.39	364.3	354.3	77.6	10
BRGWA-23S	PZ-23S	Upgradient BCD	7/26/2016	2557868.25	1162971.84	425.5	428.24	394.7	384.7	40.8	10
BRGWC-25I	PZ-25I	Downgradient B	7/25/2016	2561315.08	1160583.67	355.0	357.37	344.5	334.5	20.5	10
BRGWC-27I	PZ-27S	Downgradient C	7/22/2016	2559712.12	1159695.33	364.0	366.86	350.0	340.0	24.0	10
BRGWC-29I	PZ-29I	Downgradient C	7/23/2016	2561050.03	1160297.65	350.6	353.23	340.6	330.6	20.0	10
BRGWC-30I	PZ-30I	Downgradient D	7/18/2016	2557691.84	1161607.69	350.0	352.61	340.0	330.0	20.3	10
BRGWC-32S	PZ-32S	Downgradient D	7/20/2016	2558497.97	1160677.67	403.6	406.39	368.6	358.6	45.0	10
BRGWC-45	PZ-45	Downgradient B	2/3/2018	2561075.38	1162229.68	381.6	384.58	335.0	325.0	57.0	10
BRGWC-47	PZ-47	Downgradient D	1/25/2018	2559456.75	1162700.66	408.8	411.20	327.2	317.2	92.0	10
BRGWC-50	PZ-50	Downgradient B	1/31/2018	2562372.96	1161593.45	378.8	381.35	324.2	314.2	65.0	10
BRGWC-52I	PZ-52	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	PZ-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	PZ-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	PZ-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	PZ-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	PZ-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWC-17S	PZ-17S	Downgradient E	3/13/2014	2554687.84	1166301.32	362.2	365.32	360.5	355.5	7.1	5
BRGWC-33S	PZ-33S	Downgradient E	7/26/2016	2554064.97	1168057.09	414.2	416.68	398.2	388.2	26.4	10
BRGWC-34S	PZ-34S	Downgradient E	7/25/2016	2554231.28	1167384.17	389.2	391.96	376.2	366.2	23.0	10
BRGWC-35S	PZ-35S	Downgradient E	7/23/2016	2554476.13	1166646.02	363.7	366.31	346.7	336.7	27.4	10
BRGWC-36S	PZ-36S	Downgradient E	7/26/2016	2554693.26	1165742.82	383.1	389.84	364.4	354.4	28.7	10
BRGWC-37S	PZ-37S	Downgradient E	7/24/2016	2554979.63	1165093.07	444.4	447.05	390.8	380.8	63.6	10
BRGWC-38S	PZ-38S	Downgradient E	7/22/2016	2555016.50	1164391.82	429.8	432.24	402.0	392.0	38.2	10

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

Well ID	Alternate Name	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽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 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	10/8/2020	2562380.34	1161589.51	378.3	380.86	282.3	272.3	106.0	10
PZ-51S	--	Downgradient B	8/1/2018	2562433.07	1161613.24	377.9	380.27	337.9	332.9	45.4	5
PZ-51I	--	Downgradient	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-57I	--	Downgradient B	3/24/2021	2562170.21	1161582.31	379.4	382.50	313.8	303.8	75.9	10
PZ-58I	--	Downgradient B	3/27/2021	2562297.82	1161579.00	379.3	382.27	325.7	315.7	63.9	10
PZ-59I	--	Downgradient B	3/31/2021	2562329.80	1161654.90	379.9	383.49	323.5	313.5	66.0	10
PZ-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-62I	--	Downgradient B	1/6/2022	2562336.00	1161478.90	378.1	380.95	318.1	308.1	70.0	10
PZ-63I	--	Downgradient B	1/5/2022	2562233.10	1161371.20	378.6	381.31	332.1	322.1	56.5	10
Piezometers											
PZ-1D	--	Upgradient	4/4/2014	2551598.09	1171999.19	462.9	463.41	397.4	302.9	160.0	94.5
PZ-1I	--	Upgradient	3/10/2014	2551577.63	1171995.75	461.9	464.71	392.8	382.8	79.5	10
PZ-1S	--	Upgradient	3/20/2014	2551588.02	1171996.20	462.4	465.07	407.8	397.8	65.0	10
PZ-3D	--	Upgradient	3/27/2014	2550275.05	1165474.25	486.7	487.50	438.7	358.6	130.0	82
PZ-3I	--	Upgradient	3/11/2014	2550273.05	1165494.61	486.5	489.49	442.3	432.3	54.6	10
PZ-3S	--	Upgradient	3/11/2014	2550274.66	1165484.43	487.0	490.53	457.5	447.5	39.9	10
PZ-4I	--	Upgradient	3/11/2014	2551282.08	1163246.61	479.9	482.98	443.5	433.5	46.8	10
PZ-4S	--	Upgradient	3/10/2014	2551270.14	1163247.97	479.9	482.87	460.3	450.3	30.0	10
PZ-7S	--	Downgradient	4/1/2014	2553055.64	1169419.33	449.0	451.57	414.9	404.9	44.5	10
PZ-8S	--	Upgradient	4/1/2014	2551188.94	1167801.20	450.5	453.08	411.4	401.4	49.5	10
PZ-9S	--	Upgradient	3/5/2014	2553089.53	1162633.36	466.1	469.28	428.5	418.5	48.0	10
PZ-10S	--	Downgradient	3/5/2014	2554990.43	1164021.55	431.0	433.85	402.4	392.4	39.0	10
PZ-11S	--	Downgradient	2/20/2014	2557002.59	1162467.37	390.9	393.99	376.8	366.8	24.5	10
PZ-12D	PZD-12D	Downgradient	4/14/2014	2557136.26	1164311.85	431.4	434.09	350.1	290.1	141.7	60
PZ-13S	--	Downgradient	3/19/2014	2555276.64	1168011.19	406.5	409.97	382.2	372.2	34.7	10
PZ-14I	--	Downgradient	3/20/2014	2554365.65	1168398.28	419.9	422.71	376.5	366.5	53.8	10
PZ-14S	--	Downgradient	3/20/2014	2554359.23	1168398.59	420.2	423.31	393.0	383.0	37.6	10
PZ-15I	--	Downgradient	3/25/2014	2554399.25	1167721.02	400.2	403.06	321.9	311.9	88.7	10
PZ-15S	--	Downgradient	3/27/2014	2554394.06	1167720.25	400.1	402.90	370.2	360.2	39.9	10
PZ-16I	--	Downgradient	3/14/2014	2554587.53	1166980.59	379.5	382.45	351.3	341.3	38.6	10
PZ-16S	--	Downgradient	3/18/2014	2554581.44	1166977.63	379.3	382.52	370.6	360.6	19.1	10
PZ-17I	--	Downgradient	3/17/2014	2554702.42	1166313.81	362.3	365.33	329.2	319.2	43.5	10
PZ-18I	--	Downgradient	2/26/2014	2557745.51	1160766.13	359.6	362.55	331.3	321.3	38.4	10
PZ-18S	--	Downgradient	3/26/2014	2557747.42	1160757.41	359.7	362.82	345.0	335.0	24.2	10
PZ-19I	--	Downgradient	3/4/2014	2558899.87	1159797.10	368.9	371.74	335.6	325.6	43.7	10
PZ-19S	--	Downgradient	3/4/2014	2558894.60	1159805.43	368.4	371.42	350.8	340.8	28.0	10

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Monitoring Well Network Summary
Plant Branch AP-E, Putnam County, Georgia

Well ID	Alternate Name	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽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)
PZ-20I	--	Downgradient	3/5/2014	2560160.17	1159495.25	362.2	365.34	343.1	333.1	29.5	10
PZ-20S	--	Downgradient	3/5/2014	2560157.16	1159490.13	362.2	365.41	357.3	347.3	15.3	10
PZ-21I	--	Downgradient	3/10/2014	2561328.17	1160591.42	355.8	358.92	341.8	331.8	24.4	10
PZ-21S	--	Downgradient	3/11/2014	2561321.43	1160592.45	355.5	358.52	351.1	346.1	9.8	5
PZ-23I	--	Downgradient	7/29/2016	2557877.71	1162975.56	425.1	427.74	368.6	358.6	66.5	10
BRGWC-24S	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	7/26/2016	2561626.45	1160669.20	368.0	370.63	347.5	337.5	30.5	10
PZ-28I	--	Downgradient	7/24/2016	2560151.53	1159505.00	362.5	364.81	348.5	338.5	24.0	10
PZ-31S	--	Downgradient	7/26/2016	2557971.75	1160936.81	374.3	376.77	344.8	334.8	39.5	10
PZ-39	--	Downgradient	7/30/2016	2557460.52	1163675.53	432.0	434.78	397.3	387.3	44.7	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	--	Downgradient A	2/9/2017	2562734.89	1162845.64	359.0	361.66	337.2	327.2	32.2	10
PZ-43	--	Downgradient A	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-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-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 B	5/20/2020	2554086.36	1162965.21	416.2	418.84	396.9	386.9	29.3	10
PB-1S	--	Downgradient	1/22/2019	2556355.89	1164910.63	400.4	403.16	372.4	362.4	38.0	10
PB-2D	--	Downgradient	12/4/2018	2556914.34	1164853.67	414.9	416.71	367.9	357.9	57.0	10
PB-4S	--	Downgradient	1/16/2019	2556069.32	1164335.20	409.3	411.15	371.3	361.3	48.0	10
PB-4D	--	Downgradient	1/16/2019	2556060.72	1164339.50	409.0	412.12	304.5	294.5	114.5	10
PB-7S	--	Downgradient	1/14/2019	2556186.30	1163831.09	399.7	402.88	376.7	366.7	33.0	10
PB-8S	--	Downgradient	1/8/2018	2556792.21	1163018.39	398.6	401.82	373.6	363.6	35.0	10
PB-8D	--	Downgradient	1/8/2018	2556786.65	1163024.53	398.2	401.74	304.2	294.2	106.0	10
PB-10S	--	Downgradient	1/16/2019	2558551.25	1163589.10	397.6	400.91	374.6	364.6	33.0	10
PB-10D	--	Downgradient	1/16/2019	2558546.62	1163593.43	397.5	400.31	322.5	312.5	85.0	10
PB-13S	--	Downgradient	12/10/2018	2556626.03	1162084.43	370.8	373.31	330.8	320.8	50.0	10
PB-13D	--	Downgradient	12/10/2018	2556638.88	1162084.53	371.1	373.77	284.1	274.1	97.0	10

Notes:

ft = feet

ft BGS = feet below ground surface

-- = not applicable

(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-E, Putnam County, Georgia

Well ID	Hydraulic Location	September 21-28, 2021	February 1-4, 2022	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	Assessment	
<i>AP-E</i>				
BRGWA-2S	Upgradient	X	X	Assessment
BRGWA-2I	Upgradient	X	X	Assessment
BRGWA-5S	Upgradient	X	X	Assessment
BRGWA-5I	Upgradient	X	X	Assessment
BRGWA-6S	Upgradient	X	X	Assessment
BRGWC-17S	Downgradient	X	X	Assessment
BRGWC-33S	Downgradient	X	X	Assessment
BRGWC-34S	Downgradient	X	X	Assessment
BRGWC-35S	Downgradient	X	X	Assessment
BRGWC-36S	Downgradient	X	X	Assessment
BRGWC-37S	Downgradient	X	X	Assessment
BRGWC-38S	Downgradient	X	X	Assessment

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	September 20, 2021		January 31, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
AP-BCD Detection Monitoring Well Network					
BRGWA-2S	443.20	12.44	430.76	11.03	432.17
BRGWA-2I	443.14	12.29	430.85	10.87	432.27
BRGWA-5S	443.86	11.85	432.01	11.00	432.86
BRGWA-5I	443.79	11.76	432.03	11.02	432.77
BRGWA-6S	458.96	26.52	432.44	24.63	434.33
BRGWA-12S	434.64	50.20	384.44	49.88	384.76
BRGWA-12I	434.39	49.91	384.48	49.73	384.66
BRGWA-23S	428.24	37.03	391.21	38.36	389.88
BRGWC-25I	357.37	9.68	347.69	9.27	348.10
BRGWC-27I	366.86	7.63	359.23	8.78	358.08
BRGWC-29I	353.23	10.12	343.11	10.17	343.06
BRGWC-30I	352.61	4.52	348.09	4.63	347.98
BRGWC-32S	406.39	37.30	369.09	39.20	367.19
BRGWC-45	384.58	11.31	373.27	10.86	373.72
BRGWC-47	411.20	25.76	385.44	26.51	384.69
BRGWC-50	381.35	37.87	343.48	38.01	343.34
BRGWC-52I	383.87	39.22	344.65	39.31	344.56
AP-E Detection Monitoring Well Network					
BRGWA-2S	443.20	12.44	430.76	11.03	432.17
BRGWA-2I	443.14	12.29	430.85	10.87	432.27
BRGWA-5S	443.86	11.85	432.01	11.00	432.86
BRGWA-5I	443.79	11.76	432.03	11.02	432.77
BRGWA-6S	458.96	26.52	432.44	24.63	434.33
BRGWC-17S	365.32	5.92	359.40	5.94	359.38
BRGWC-33S	416.68	11.95	404.73	9.02	407.66
BRGWC-34S	391.96	3.00	388.96	2.53	389.43
BRGWC-35S	366.31	1.50	364.81	1.75	364.56
BRGWC-36S	389.84	3.18	386.66	3.73	386.11
BRGWC-37S	447.05	50.85	396.20	52.09	394.96
BRGWC-38S	432.24	22.05	410.19	20.85	411.39
AP-BCD Assessment Monitoring Well Network					
PZ-44	383.04	25.60	357.44	25.59	357.45
PZ-50D	380.86	38.02	342.84	38.09	342.77
PZ-51S	380.27	38.32	341.95	38.39	341.88
PZ-51I	380.52	38.16	342.36	38.21	342.31
PZ-51D	380.75	37.94	342.81	37.87	342.88
PZ-57I	382.50	35.70	346.80	35.89	346.61

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	September 20, 2021		January 31, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
PZ-58I	382.27	36.98	345.29	37.12	345.15
PZ-59I	383.49	38.27	345.22	38.44	345.05
PZ-60I	382.61	37.79	344.82	37.96	344.65
PZ-61I	380.64	40.52	340.12	40.45	340.19
PZ-62I	380.95	not installed	not installed	39.02	341.93
PZ-63I	381.31	not installed	not installed	39.10	342.21
Piezometers					
PZ-1D	463.41	37.70	425.71	38.12	425.29
PZ-1I	464.71	38.38	426.33	39.03	425.68
PZ-1S	465.07	37.40	427.67	38.07	427.00
PZ-3D	487.50	49.00	438.50	49.38	438.12
PZ-3I	489.49	50.76	438.73	51.29	438.20
PZ-3S	490.53	>43.60(DRY)	DRY	>43.60(DRY)	DRY
PZ-4I	482.98	34.40	448.58	34.60	448.38
PZ-4S	482.87	DRY	DRY	DRY	DRY
PZ-7S	451.57	22.39	429.18	24.63	426.94
PZ-8S	453.08	24.46	428.62	24.46	428.62
PZ-9S	469.28	37.44	431.84	38.30	430.98
PZ-10S	433.85	26.95	406.90	26.10	407.75
PZ-11S	393.99	18.43	375.56	18.40	375.59
PZ-12D	434.09	75.40	358.69	79.55	354.54
PZ-13S	409.97	27.70	382.27	26.82	383.15
PZ-14I	422.71	19.70	403.01	19.84	402.87
PZ-14S	423.31	22.92	400.39	20.80	402.51
PZ-15I	403.06	10.70	392.36	9.66	393.40
PZ-15S	402.90	10.95	391.95	9.50	393.40
PZ-16I	382.45	11.90	370.55	11.17	371.28
PZ-16S	382.52	12.00	370.52	11.35	371.17
PZ-17I	365.33	2.93	362.40	2.71	362.62
PZ-18I	362.55	19.90	342.65	19.24	343.31
PZ-18S	362.82	21.08	341.74	20.91	341.91
PZ-19I	371.74	17.51	354.23	17.15	354.59
PZ-19S	371.42	16.95	354.47	16.58	354.84
PZ-20I	365.34	15.85	349.49	15.41	349.93
PZ-20S	365.41	16.02	349.39	15.59	349.82
PZ-21I	358.92	11.20	347.72	10.71	348.21
PZ-21S	358.52	10.71	347.81	10.21	348.31
PZ-23I	427.74	36.51	391.23	37.96	389.78

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	September 20, 2021		January 31, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
BRGWC-24S	354.10	14.42	339.68	14.01	340.09
PZ-26I	370.63	22.63	348.00	20.40	350.23
PZ-28I	364.81	15.34	349.47	14.53	350.28
PZ-31S	376.77	26.24	350.53	27.73	349.04
PZ-39	434.78	48.88	385.90	48.85	385.93
PZ-40S	355.96	16.03	339.93	15.72	340.24
PZ-41S	357.17	17.23	339.94	16.95	340.22
PZ-42S	361.66	20.71	340.95	20.50	341.16
PZ-43	383.71	29.12	354.59	29.54	354.17
PZ-46	384.64	9.00	375.64	9.04	375.60
PZ-48	420.90	30.61	390.29	31.60	389.30
PZ-49	384.99	10.89	374.10	9.00	375.99
PZ-52D	417.03	13.60	403.43	11.94	405.09
PZ-53D	434.68	22.90	411.78	20.90	413.78
PZ-54	443.86	47.65	396.21	49.54	394.32
PZ-55	453.07	46.20	406.87	46.00	407.07
PZ-56	418.84	7.22	411.62	7.80	411.04
PB-1S	403.16	17.06	386.10	16.25	386.91
PB-2D	416.71	38.09	378.62	37.77	378.94
PB-4S	411.15	24.04	387.11	24.10	387.05
PB-4D	412.12	25.11	387.01	24.80	387.32
PB-7S	402.88	22.40	380.48	21.55	381.33
PB-8S	401.82	19.24	382.58	19.05	382.77
PB-8D	401.74	20.19	381.55	19.90	381.84
PB-10S	400.91	13.79	387.12	13.85	387.06
PB-10D	400.31	13.35	386.96	13.45	386.86
PB-13S	373.31	8.47	364.84	8.09	365.22
PB-13D	373.77	9.18	364.59	8.81	364.96

Notes:

ft = feet

ft BTOC = feet below top of casing

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

Table 4
Groundwater Gradient and Flow Velocity Calculations
Plant Branch AP-E, Putnam County, Georgia

Flow Path Direction ⁽¹⁾	September 20, 2021				January 31, 2022			
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
BRGWA-5S/BRGWC-33S	432.01	404.73	5108	0.005	432.86	407.66	5108	0.005
PZ-4I/BRGWC-38S	448.58	410.19	3904	0.010	448.38	411.39	3904	0.009

Flow Path Direction ⁽¹⁾	K _h (ft/day)	n _e	Average		
			i (ft/ft)	V (ft/day) ⁽²⁾	V (ft/day) ⁽³⁾
BRGWA-5S/BRGWC-33S	2.70	0.20	0.005	0.07	0.17
PZ-4I/BRGWC-38S	5.50	0.20	0.010	0.27	

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-E and illustrated on Figures 3 and 4 of associated report.

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

(3) Average groundwater flow velocity for unit.

Table 5A
 Summary of Groundwater Analytical Results - September 2021
 Plant Branch AP-E, Putnam County, Georgia

Well ID:		BRGWA-2S	BRGWA-2I	BRGWA-5S	BRGWA-5I	BRGWA-6S	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
Sample Date:		9/22/2021	9/22/2021	9/21/2021	9/21/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/23/2021	9/22/2021	9/23/2021	9/23/2021
Parameter ^(1,2,3)													
APPENDIX III	Boron	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	0.02 J	1.1	2.2	2	1.1	<0.0086	1.4
	Calcium	4.3	15.9	19.1	14.1	4.1	36.4	28.9	76.9	70.5	53.7	3.7	36.8
	Chloride	1.5	1.7	3.2	3.2	2.1	4.6	2.7	5.6	6.1	7.1	1.9	6
	Fluoride	<0.05	<0.05	0.056 J	<0.05	<0.05	0.1	0.068 J	0.1	0.073 J	0.054 J	<0.05	0.85
	pH	6.06	6.78	6.36	6.32	6.48	6.22	4.81	5.93	6.08	5.53	5.85	4.05
	Sulfate	<0.5	5.2	<0.5	2.3	<0.5	123	94.6	232	258	234	<0.5	318
	TDS	66	129	104	108	62	323	190	406	511	457	49	528
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	Arsenic	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.002 J
	Barium	0.0097	0.0075	0.038	0.025	0.014	0.043	0.019	0.021	0.036	0.028	0.027	0.014
	Beryllium	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	0.0012	0.00015 J	0.00016 J	0.000084 J	<0.000054	0.0071
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00019 J	0.00033 J	<0.00011	<0.00011	<0.00011	0.00048 J
	Chromium	0.0091	0.0013 J	0.0044 J	0.0064	0.014	0.0091	<0.0011	<0.0011	0.0065	0.0065	0.0016 J	0.004 J
	Cobalt	<0.00039	0.0015 J	<0.00039	0.00071 J	0.00078 J	<0.00039	0.024	0.0075	<0.00039	<0.00039	<0.00039	0.17
	Fluoride	<0.05	<0.05	0.056 J	<0.05	<0.05	0.1	0.068 J	0.1	0.073 J	0.054 J	<0.5	0.85
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
	Lithium	<0.00073	0.021 J	<0.00073	0.0012 J	0.0035 J	0.0011 J	0.008 J	<0.00073	0.0022 J	0.0026 J	<0.00073	0.019 J
	Mercury	0.0001 J B	0.0001 J B	0.0001 J B	0.0001 J B	0.0001 J B	0.0001 J B	0.00012 J B	0.00015 J B	0.00011 J B	0.0001 J B	0.00011 J B	0.00022 B
	Molybdenum	<0.00074	0.0012 J	<0.00074	0.002 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
	Comb. Radium 226/228	1.33 U	0.233 U	0.86 U	0.182 U	0.00089 U	0.734 U	0.382 U	0.91 U	0.394 U	0.808 U	0.078 U	1.4
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0015 J	<0.0014	<0.0014	<0.0014	0.0032 J	<0.0014	0.031
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00022 J	

Notes:

-- = Parameter was not analyzed

ND = Non-detect

< = 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).

B = Analyte was detected in the associated method blank.

TDS = total dissolved solids

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.

Table 5B
 Summary of Groundwater Analytical Results - February 2022
 Plant Branch AP-E, Putnam County, Georgia

Well ID:		BRGWA-2S	BRGWA-2I	BRGWA-5S	BRGWA-5I	BRGWA-6S	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PB-7S
Sample Date:		2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/2/2022	2/1/2022	2/4/2022
Parameter ^(1,2,3)														
APPENDIX III	Boron	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	0.013 J	1.1	2.2	2.1	1	0.032 J	1.6	0.013 J
	Calcium	4.4	14.4	19.1	14.5	4.2	41.5	34.3	81.7	73.8	49.7	3.7	37.8	7.7
	Chloride	1.6	1.8	3.4	3.5	2.1	4.9	13.1	5.9	6	7.6	1.8	5.8	3.6
	Fluoride	<0.05	<0.05	<0.05	<0.05	<0.05	0.079 J	0.053 J	0.06 J	0.055 J	<0.05 M1	<0.05	0.95	<0.05
	pH	5.95	6.83	6.39	6.38	6.54	6.39	4.82	5.87	6.09	5.65	5.80	4.06	5.62
	Sulfate	<0.5	5.4	<0.5	2	<0.5	139	99.7	243	256	195 M1	<0.5	287	1.1
	TDS	72	126	124	129	61	354	209	449	521	441	46	560	71
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	--
	Arsenic	<0.0011	0.0012 J	0.0012 J	0.0013 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	--
	Barium	0.01	0.0066	0.04	0.028	0.014	0.045	0.023	0.024	0.033	0.029	0.025	0.015	--
	Beryllium	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	0.0013	0.00015 J	0.00015 J	0.000087 J	<0.000054	0.0072	--
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00023 J	0.00012 J	<0.00011	<0.00011	<0.00011	0.00058	--
	Chromium	0.0092	0.0013 J	0.0052	0.0066	0.015	0.013	<0.0011	<0.0011	0.0056	0.0068	0.0015 J	0.0035 J	--
	Cobalt	0.0011 J	0.00079 J	<0.00039	0.0007 J	<0.00039	<0.00039	0.027	0.0044 J	<0.00039	<0.00039	<0.00039	0.18	<0.00039
	Fluoride	<0.05	<0.05	<0.05	<0.05	<0.05	0.079 J	0.053 J	0.06 J	0.055 J	<0.05 M1	<0.05	0.95	--
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	--
	Lithium	<0.00073	0.023 J	<0.00073	0.0011 J	0.0029 J	0.00096 J	0.0083 J	0.00085 J	0.0021 J	0.0023 J	<0.00073	0.02 J	--
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	--
	Molybdenum	<0.00074	0.0013 J	<0.00074	0.002 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	--
	Comb. Radium 226/228	0.251 U	0.233 U	0.23 U	1.23	0.349 U	0.503 U	0.583 U	0.535 U	0.672 U	1.61	0.654 U	7.64	--
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0021 J	<0.0014	<0.0014	<0.0014	0.0025 J	<0.0014	0.029	--
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	--	

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)

M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

(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 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Branch AP-E, Putnam County, Georgia

Analyte	Units	Background ⁽¹⁾		GWPS ⁽²⁾⁽³⁾
		Sept. 2021	Feb. 2022	
Antimony	mg/L	0.003	0.003	0.006
Arsenic	mg/L	0.005	0.005	0.01
Barium	mg/L	0.063	0.063	2
Beryllium	mg/L	0.0005	0.0005	0.004
Cadmium	mg/L	0.0025	0.0005	0.005
Chromium	mg/L	0.016	0.016	0.1
Cobalt	mg/L	0.005	0.005	0.006
Fluoride	mg/L	0.19	0.19	4
Lead	mg/L	0.0013	0.0013	0.015
Lithium	mg/L	0.089	0.089	0.089
Mercury	mg/L	0.00021	0.00021	0.002
Molybdenum	mg/L	0.01	0.01	0.1
Selenium	mg/L	0.005	0.005	0.05
Thallium	mg/L	0.001	0.001	0.002
Combined Radium-226/228	pCi/L	1.4	1.55	5

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

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

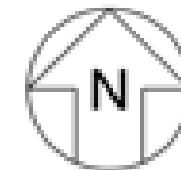
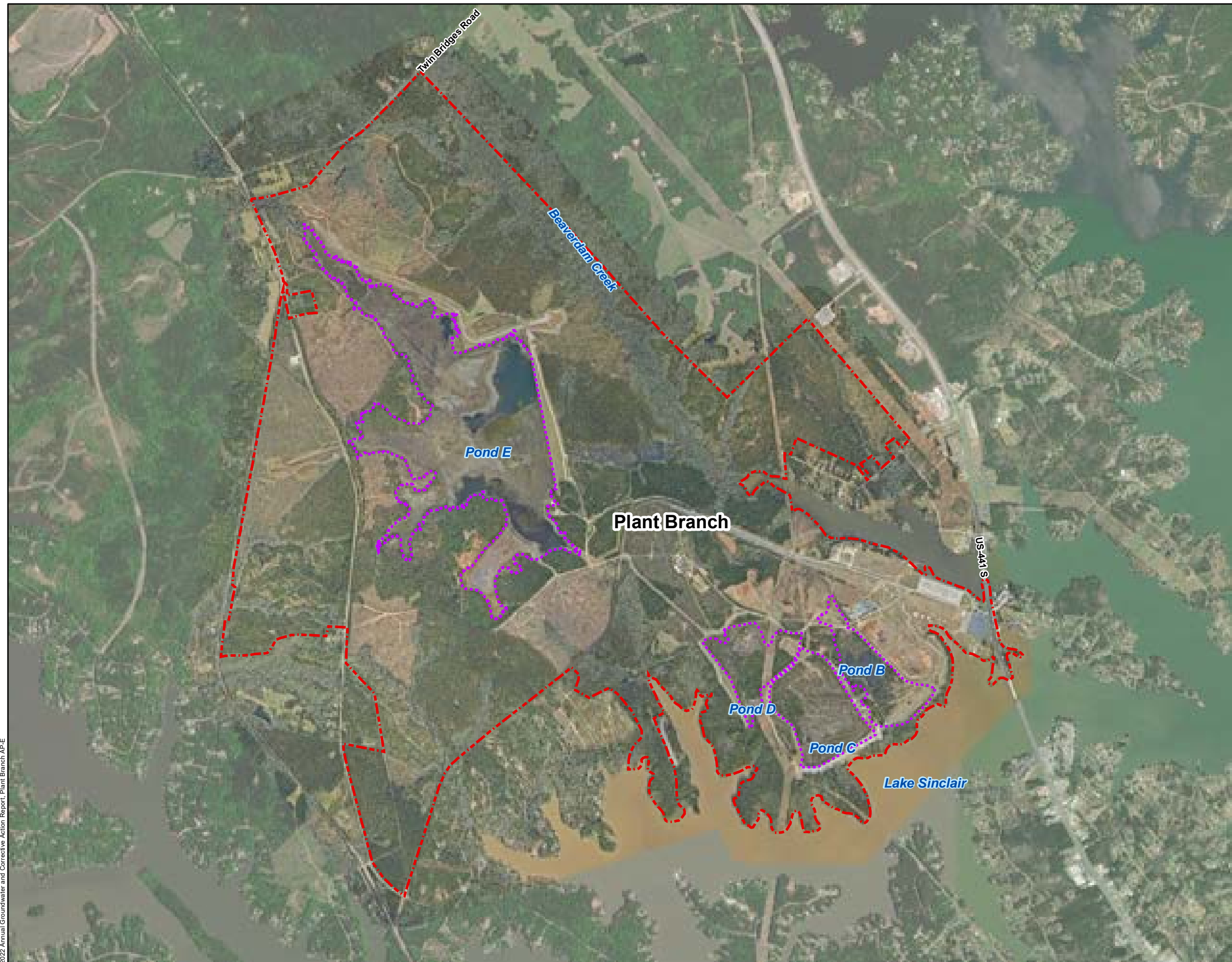
Background limits and groundwater protection standards (GWPS) are applicable to the September 2021 and February 2022 events.

(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 Federal 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-specified 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.

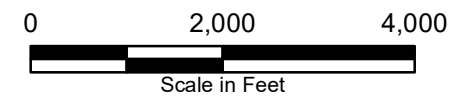
FIGURES



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 Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community 2019 and Georgia Power Company, February 2022.



SITE LOCATION MAP

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

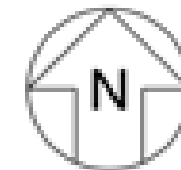
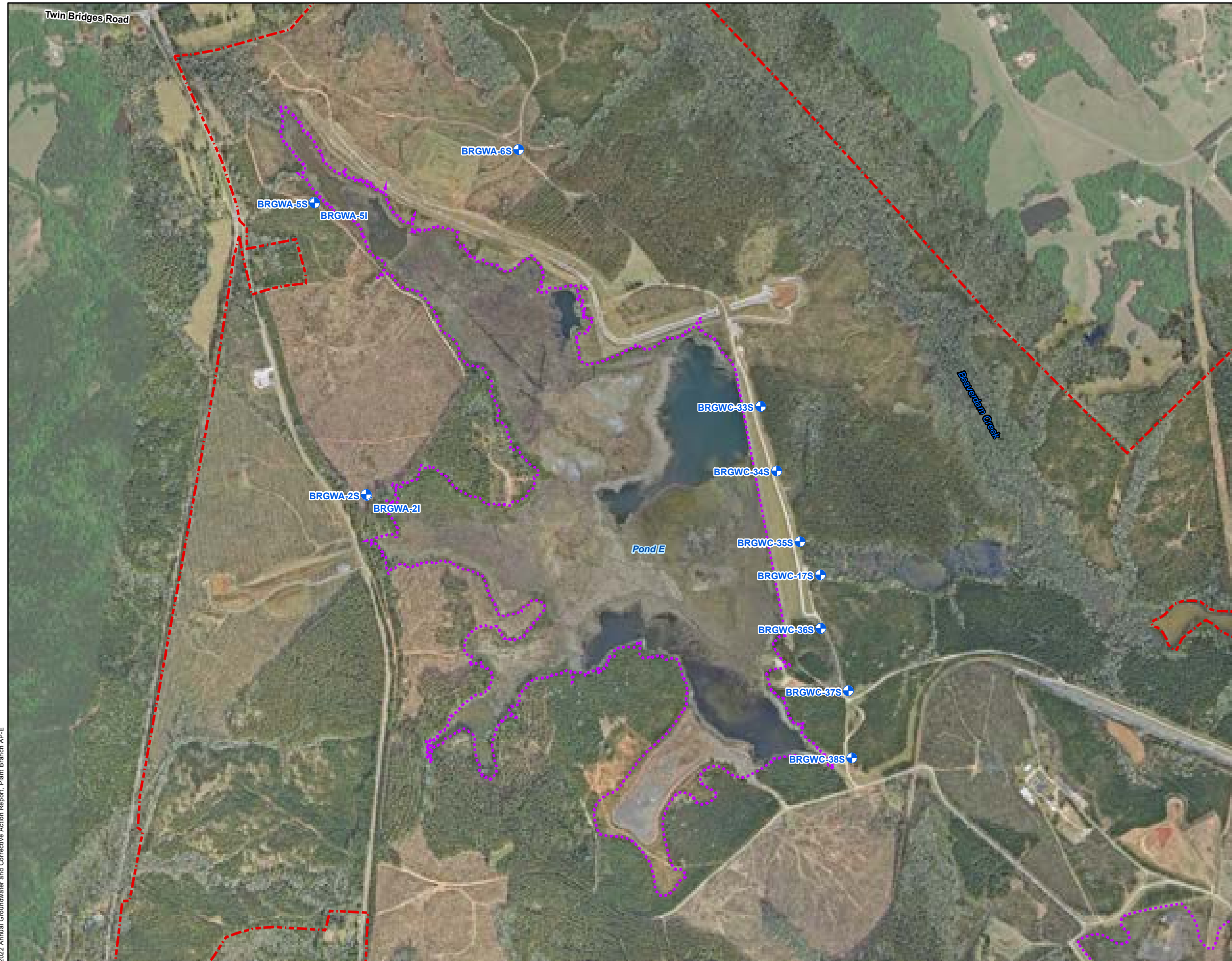
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

JULY 2022

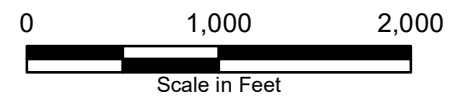
FIGURE 1



- LEGEND**
- Monitoring Well
 - 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 Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community 2019 and Georgia Power Company, February 2022.



**AP-E SITE PLAN
MONITORING WELL LOCATION
MAP**

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

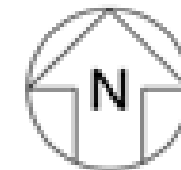
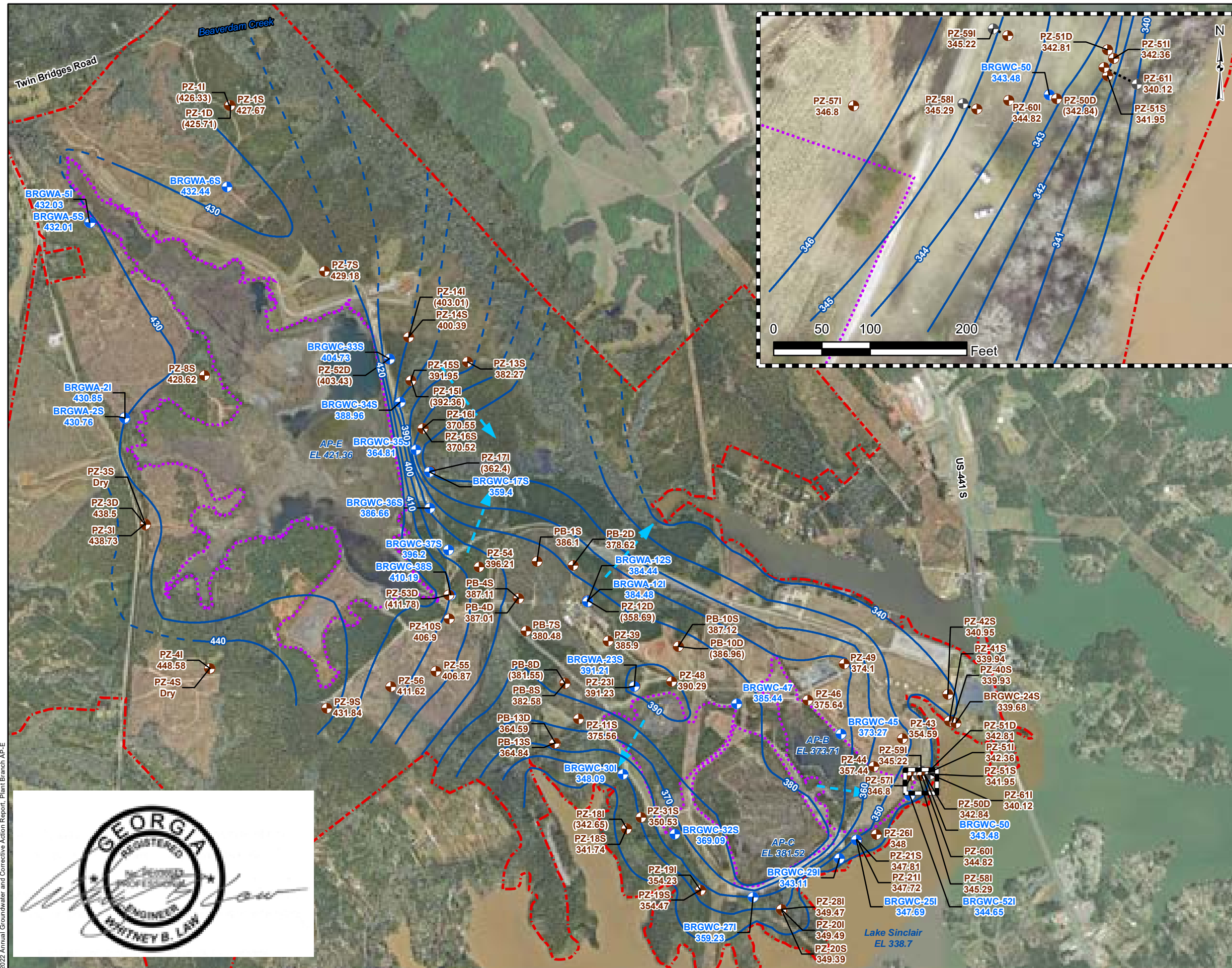
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA

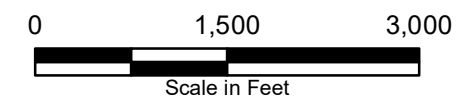
JULY 2022

**FIGURE
2**



- LEGEND**
- Monitoring Well
 - Piezometer
 - Angled Well Screen
 - 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 September 20, 2021.
 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. NA - not available
 6. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
 7. Property Boundary Provided by Southern Company Services.
 8. Aerial Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community 2019 and Georgia Power Company, February 2022.



POTENTIOMETRIC SURFACE CONTOUR MAP - SEPTEMBER 2021

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

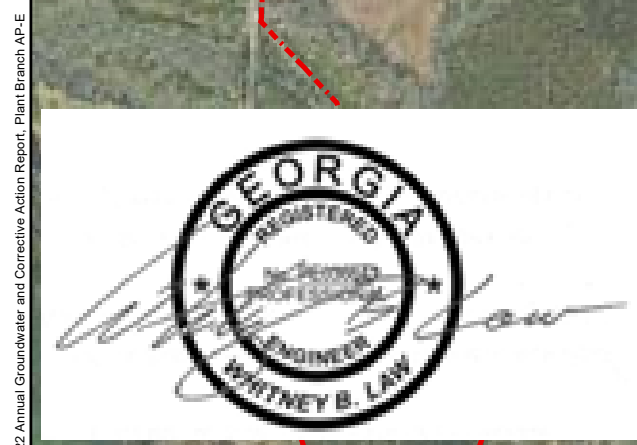
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

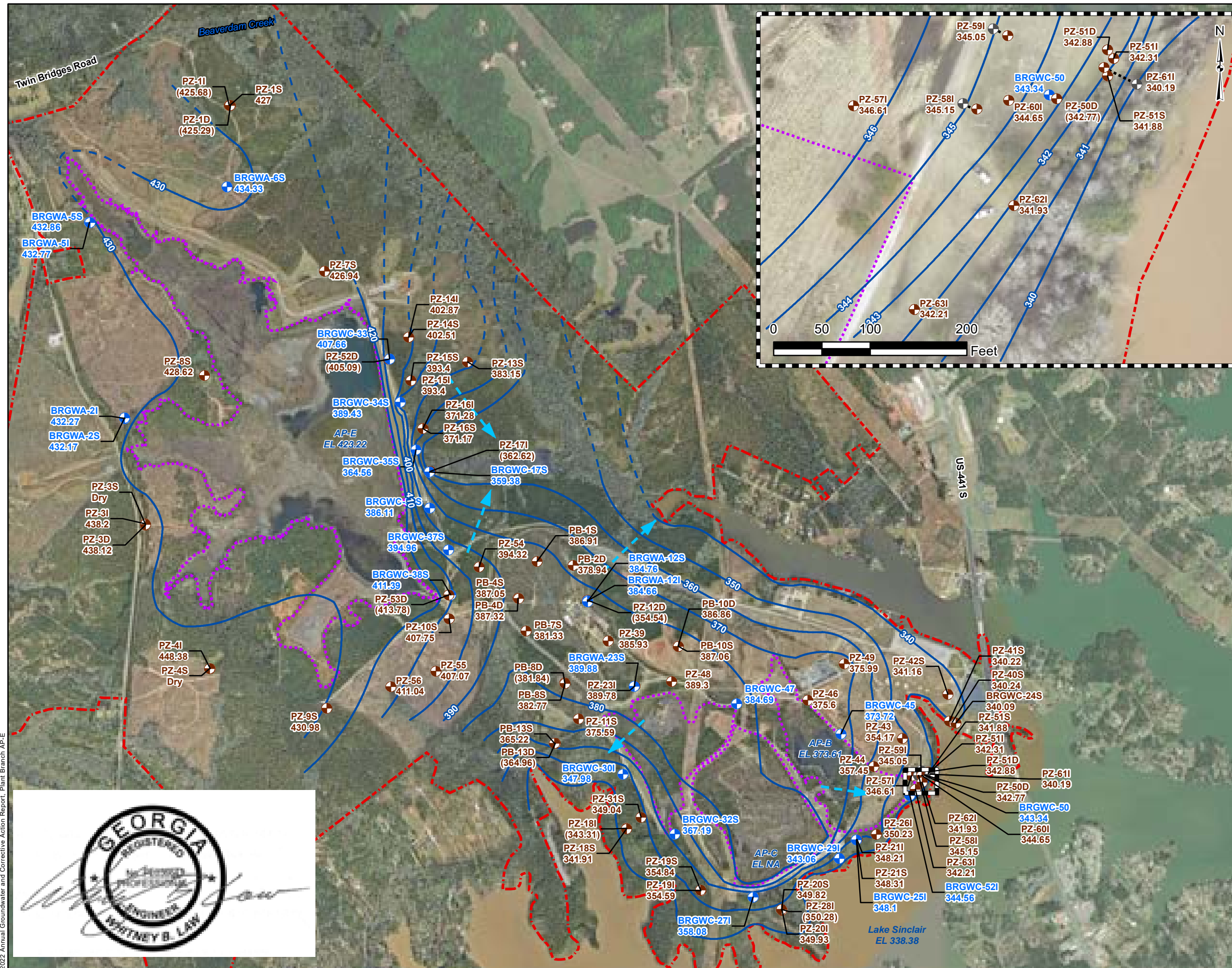
KENNESAW, GA

JULY 2022

FIGURE
3

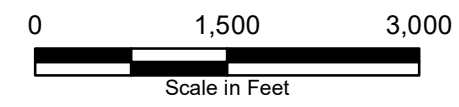


2022 Annual Groundwater and Corrective Action Report, Plant Branch AP-E



- LEGEND**
- Monitoring Well
 - Piezometer
 - Angled Well Screen
 - 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 January 31, 2022.
 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. NA - not available
 6. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
 7. Property Boundary Provided by Southern Company Services.
 8. Aerial Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community 2019 and Georgia Power Company, February 2022.



POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2022

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

JULY 2022

FIGURE 4

2022 Annual Groundwater and Corrective Action Report, Plant Branch AP-E



APPENDIX A

Laboratory Analytical Results, Field Data Forms, Field Calibration Forms, Well Inspection Logs & Data Validation Reports

APPENDIX A

Laboratory Analytical Results



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

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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
		EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

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	

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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	CUSTOMER			02/03/22 12:57	
	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	CUSTOMER			02/07/22 09:56	
	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
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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	
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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		
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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		

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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			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	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
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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	
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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		
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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		

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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
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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	
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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		
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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			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	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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: BRGWC-47									
Lab ID: 92585977005									
Collected: 02/02/22 09:40 Received: 02/03/22 10:35 Matrix: Water									
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			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	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
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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	
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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		
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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			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	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
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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
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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	
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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

Pace 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
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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	
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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		
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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

Sample: BRGWC-271 Lab ID: 92585977009 Collected: 02/04/22 08:50 Received: 02/04/22 16:06 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	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
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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	
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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		
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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		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD

Pace Project No.: 92585977

Sample: BRGWC-29I **Lab ID: 92585977010** Collected: 02/03/22 17:00 Received: 02/04/22 16:06 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		02/10/22 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	

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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			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	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									MSD 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	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
		92585977001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec				
Mercury	mg/L	ND	0.0025	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	3548806		3548807		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	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 CaCO3	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Carbonate (CaCO3)	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 CaCO3	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 CaCO3	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 CaCO3	mg/L	16.2	40	40	58.1	58.3	105	105	80-120	0	20	

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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	% Rec	% 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	% Rec	% Rec					
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	99	103	80-120	3	10		

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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:	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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REPORT OF LABORATORY ANALYSIS

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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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586778001	Result	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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585920032	Result	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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REPORT OF LABORATORY ANALYSIS

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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						
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	4387551		4387552		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	0.57	20	17.8	18.9	86	92	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4387553 4387554

Parameter	Units	4387553		4387554		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	1.4	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	DUP-3				
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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Document Name
 Sample Condition Upon Receipt (SCUR)
 Document No.
 PCA#123-456-Rev.04

Customer Name: November 13, 2020
 Page 1 of 2
 Issuing Authority:
 Texas Central Quality Office

Laboratory receiving samples

Ashville Eden Greenwood Humbleville Raleigh Mechanicsville Arlington Karnersville



Client Name:

Georgia Family

Project ID:

WO#: 92585977



Customer Internal Tracking Number: *025019*

County Commercial

Category of Pest(s) Flea Tick Flea/Tick Dog Cat

Packing Material Bubble wrap Bubble Bag None Other

Refrigeration No Yes Dry Ice Other

Biological Safety Program

Yes No Both

Cooler Temp. 32-40 40-45 45-50

Temp. checked by *AG* (initials) Temp. to 32C

Samples not at temperature & samples on ice during arrival
 No impact

Cooler Temp. Corrected (Y/N)

Within Regulated Soil No Yes (water sample)

Customer on site to receive samples (initials) *AG*

Do samples originate from a foreign source (international)?

Handling: Quarantine No Yes

Chain of Custody Program?

Yes No Other

Samples Arrived within 1 Hour (Y/N)?

Yes No Other

Threshold Time Analysis (30 min)?

Yes No Other

Walk Time Arrived Item Requested?

Yes No Other

Sample Volume?

1oz 2oz 4oz

Correct Container Used?

Yes No Other

Four Containers Used?

Yes No Other

Container Labeled?

Yes No Other

Observed any pest activity (level) *High*

Yes No Other

Sample Labels Match COC?

Yes No Other

Includes Chain of Custody (Signature) *AG*

Handwritten on site Mark (Y/N) *Yes*

Yes No Other

1oz Walk Sample?

Yes No Other

Two Walk Sample (Soil) Program?

Yes No Other

Comments/Remarks (Printed Name)

Field Date Required: Yes No

Lab Dispatch (Printed Name)

CURTAIN NOTIFICATION (Printed Name)

Phone contacted

CH4 Title

Project Manager SOLEB Employee

Date

Project Manager BIF Employee

Date

2

CHAIN OF CUSTODY - Analytical Request Document
Revision 1.0 - 11/14/2012

Requester Name: [] Requester Title: [] Requester Department: [] Requester Phone: [] Requester Email: []

Sample ID: [] Sample Description: [] Sample Location: [] Sample Date: [] Sample Time: []

Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Collection Method		Storage Method		Analysis Method		Analysis Date	Analysis Time
					By	How	Where	How	Where	How			Where
1	SAMPLE 10											
2												
3												
4												
5												
6												
7												
8												
9												
10												

Signature: [] Date: [] Title: []

LABORATORY / []



Document Name
Sample Collection Log (Sample) (S/MS)
 Document No.
P-CAR-05-001-Rev 01

Document Revised (Number) 15 (05)
 Page 1 of 2
 Issued (Date)
1/27/2011

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Vendor Information
 (Optional)

Client Name:
GA Power

Project # **WQ# : 92585977**

Country: Canada Mexico Other
 Commercial Public Military Other

PO: 440 Due Date: 02/17/22
 CLIENT: GA-CA Power

On-Body Seal Present? Yes No Seal Intact? Yes No

On-Body Seal Person (Name/Signature) PT 2-17-12

Packing Material: Bubble wrap Bubble bag None Other

Biological Threat (Request)?
 Yes No

Thermometer: # 6010 2141 Serial # 2141 Yes No

Cooler Temp: 3.3 Container Factor: 1.0 2.0 1

Time should be above freezing to 1°C
 Samples are frozen (initial temperature of cooling process not longer)

Cooler Temperature (at time of collection) 3.4

USA Registered State: Yes, state: Georgia
 Do samples originate in a country that is a member of the World Health Organization (WHO)?
 Yes No

Do samples originate from a foreign source (international), including foreign and Puerto Rico? Yes No
 Commercial/Security: Yes No

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	1
Seal(s) broken within legal time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	2
Short Hold Time Analysis (20 to 12)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Days	3
High Temp. Around Time Reported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Days	4
Leakage (Volume)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	5
Correct Container used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	6
Label Container correct?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	6
Container sealed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	7
Discarded analysis Samples used Filtered?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	8
Seal not broken within 12hr?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	9
Includes Date, Time, ID, Sample, Mass	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	10
Freeze pack in CO2 with 100 Grams	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Days	11
Proforma Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Days	11
Tray/Bagged/Sealed/Seal Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Days	1

Comments/Remarks (Optional): _____
 Audit Data Receiver: Yes No

IDENTIFICATION/RESOLUTION: _____

Person contacted: _____ Date/Time: _____

Project Manager (OUI) Review: _____ Date: _____

Project Manager (MS) Review: _____ Date: _____

17
 17
 17

CHAIN-OF-CUSTODY / Analytical Request Document
 For Transported Samples at a Local DCC Laboratory and Samples Transported to the Regional Laboratory

Page 1 of 2

Requester Name: _____	Requester Title: _____	Requester Agency: _____	Requester Address: _____	Requester Phone: _____	Requester Email: _____
Request Date: _____	Request Time: _____	Request Location: _____	Request Description: _____	Request Priority: _____	Request Status: _____
Requester Signature: _____	Requester Date: _____	Requester Agency: _____	Requester Address: _____	Requester Phone: _____	Requester Email: _____

Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Sample Agency	Sample Address	Sample Phone	Sample Email	Sample Status
1
2
3
4
5
6
7
8
9
10

Requester Name: _____
 Requester Title: _____
 Requester Agency: _____
 Requester Address: _____
 Requester Phone: _____
 Requester Email: _____

Request Date: _____
 Request Time: _____
 Request Location: _____
 Request Description: _____
 Request Priority: _____
 Request Status: _____

Requester Signature: _____
 Requester Date: _____



February 15, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD BACKGROUND
Pace Project No.: 92585723

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 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

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

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CERTIFICATIONS

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

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 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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-BCD BACKGROUND
Pace Project No.: 92585723

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585723001	BRGWA-12S	Water	02/01/22 13:54	02/02/22 10:25
92585723002	BRGWA-12I	Water	02/01/22 12:24	02/02/22 10:25
92585723003	BRGWA-23S	Water	02/01/22 10:05	02/02/22 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585723001	BRGWA-12S	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585723002	BRGWA-12I	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585723003	BRGWA-23S	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
		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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585723001	BRGWA-12S					
	Performed by	CUSTOME			02/02/22 14:27	
		R				
	pH	5.81	Std. Units		02/02/22 14:27	
EPA 6010D	Potassium	2.4	mg/L	0.20	02/13/22 18:28	
EPA 6010D	Sodium	5.2	mg/L	1.0	02/13/22 18:28	
EPA 6010D	Calcium	5.3	mg/L	1.0	02/13/22 18:28	
EPA 6010D	Magnesium	2.8	mg/L	0.050	02/13/22 18:28	
EPA 6020B	Barium	0.064	mg/L	0.0050	02/14/22 19:33	
EPA 6020B	Chromium	0.0029J	mg/L	0.0050	02/14/22 19:33	
SM 2540C-2015	Total Dissolved Solids	63.0	mg/L	10.0	02/07/22 15:09	
SM 2320B	Alkalinity, Total as CaCO3	29.6	mg/L	5.0	02/09/22 16:19	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	29.6	mg/L	5.0	02/09/22 16:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	02/07/22 13:11	
92585723002	BRGWA-12I					
	Performed by	CUSTOME			02/02/22 14:27	
		R				
	pH	6.40	Std. Units		02/02/22 14:27	
EPA 6010D	Potassium	2.9	mg/L	0.20	02/13/22 18:32	
EPA 6010D	Sodium	10.0	mg/L	1.0	02/13/22 18:32	
EPA 6010D	Calcium	14.2	mg/L	1.0	02/13/22 18:32	
EPA 6010D	Magnesium	3.7	mg/L	0.050	02/13/22 18:32	
EPA 6020B	Antimony	0.011	mg/L	0.0030	02/14/22 19:39	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/14/22 19:39	
EPA 6020B	Barium	0.057	mg/L	0.0050	02/14/22 19:39	
EPA 6020B	Chromium	0.0027J	mg/L	0.0050	02/14/22 19:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/14/22 19:39	
SM 2540C-2015	Total Dissolved Solids	114	mg/L	10.0	02/07/22 15:45	
SM 2320B	Alkalinity, Total as CaCO3	71.2	mg/L	5.0	02/09/22 16:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	71.2	mg/L	5.0	02/09/22 16:23	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	02/07/22 13:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/07/22 13:25	
EPA 300.0 Rev 2.1 1993	Sulfate	1.4	mg/L	1.0	02/07/22 13:25	
92585723003	BRGWA-23S					
	Performed by	CUSTOME			02/02/22 14:27	
		R				
	pH	5.65	Std. Units		02/02/22 14:27	
EPA 6010D	Iron	0.11	mg/L	0.040	02/13/22 18:37	
EPA 6010D	Manganese	0.081	mg/L	0.040	02/13/22 18:37	
EPA 6010D	Potassium	3.0	mg/L	0.20	02/13/22 18:37	
EPA 6010D	Sodium	11.3	mg/L	1.0	02/13/22 18:37	
EPA 6010D	Calcium	10.7	mg/L	1.0	02/13/22 18:37	
EPA 6010D	Magnesium	5.6	mg/L	0.050	02/13/22 18:37	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/14/22 19:45	
EPA 6020B	Barium	0.080	mg/L	0.0050	02/14/22 19:45	
EPA 6020B	Boron	0.046	mg/L	0.040	02/14/22 19:45	
EPA 6020B	Chromium	0.0028J	mg/L	0.0050	02/14/22 19:45	
EPA 6020B	Cobalt	0.00052J	mg/L	0.0050	02/14/22 19:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585723003	BRGWA-23S					
EPA 6020B	Lithium	0.0080J	mg/L	0.030	02/14/22 19:45	
EPA 6020B	Selenium	0.0020J	mg/L	0.0050	02/14/22 19:45	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	10.0	02/07/22 15:45	
SM 2320B	Alkalinity, Total as CaCO3	31.1	mg/L	5.0	02/09/22 16:28	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	31.1	mg/L	5.0	02/09/22 16:28	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/07/22 13:40	
EPA 300.0 Rev 2.1 1993	Sulfate	36.8	mg/L	1.0	02/07/22 13:40	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: BRGWA-12S **Lab ID: 92585723001** Collected: 02/01/22 13:54 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:27		
pH	5.81	Std. Units			1		02/02/22 14:27		

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	02/12/22 08:57	02/13/22 18:28	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:28	7439-96-5	
Potassium	2.4	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:28	7440-09-7	
Sodium	5.2	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:28	7440-23-5	
Calcium	5.3	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:28	7440-70-2	
Magnesium	2.8	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:28	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	02/11/22 10:29	02/14/22 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:33	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:33	7440-43-9	
Chromium	0.0029J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:33	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:04	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	63.0	mg/L	10.0	10.0	1		02/07/22 15:09		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	29.6	mg/L	5.0	1.8	1		02/09/22 16:19		
Alkalinity,Bicarbonate (CaCO3)	29.6	mg/L	5.0	1.8	1		02/09/22 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 16:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: BRGWA-12S Lab ID: 92585723001 Collected: 02/01/22 13:54 Received: 02/02/22 10:25 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	3.6	mg/L	1.0	0.60	1		02/07/22 13:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 13:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 13:11	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: BRGWA-12I **Lab ID: 92585723002** Collected: 02/01/22 12:24 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:27		
pH	6.40	Std. Units			1		02/02/22 14:27		

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	02/12/22 08:57	02/13/22 18:32	7439-89-6
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:32	7439-96-5
Potassium	2.9	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:32	7440-09-7
Sodium	10.0	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:32	7440-23-5
Calcium	14.2	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:32	7440-70-2
Magnesium	3.7	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:32	7439-95-4

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	0.011	mg/L	0.0030	0.00078	1	02/11/22 10:29	02/14/22 19:39	7440-36-0
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:39	7440-38-2
Barium	0.057	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:39	7440-39-3
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:39	7440-41-7
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:39	7440-42-8
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:39	7440-43-9
Chromium	0.0027J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:39	7440-47-3
Cobalt	ND	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:39	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:39	7439-92-1
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:39	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:39	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:39	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:39	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	0.00013	1	02/09/22 11:00	02/09/22 16:12	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	114	mg/L	10.0	10.0	1		02/07/22 15:45	
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	71.2	mg/L	5.0	1.8	1		02/09/22 16:23	
Alkalinity,Bicarbonate (CaCO3)	71.2	mg/L	5.0	1.8	1		02/09/22 16:23	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 16:23	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: BRGWA-121 Lab ID: 92585723002 Collected: 02/01/22 12:24 Received: 02/02/22 10:25 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	2.2	mg/L	1.0	0.60	1		02/07/22 13:25	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/07/22 13:25	16984-48-8	
Sulfate	1.4	mg/L	1.0	0.50	1		02/07/22 13:25	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: BRGWA-23S **Lab ID: 92585723003** Collected: 02/01/22 10:05 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:27		
pH	5.65	Std. Units			1		02/02/22 14:27		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.11	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 18:37	7439-89-6	
Manganese	0.081	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:37	7439-96-5	
Potassium	3.0	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:37	7440-09-7	
Sodium	11.3	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:37	7440-23-5	
Calcium	10.7	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:37	7440-70-2	
Magnesium	5.6	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:37	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	02/11/22 10:29	02/14/22 19:45	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:45	7440-38-2	
Barium	0.080	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:45	7440-41-7	
Boron	0.046	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:45	7440-43-9	
Chromium	0.0028J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:45	7440-47-3	
Cobalt	0.00052J	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:45	7439-92-1	
Lithium	0.0080J	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:45	7439-98-7	
Selenium	0.0020J	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:45	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:14	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	130	mg/L	10.0	10.0	1		02/07/22 15:45		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	31.1	mg/L	5.0	1.8	1		02/09/22 16:28		
Alkalinity,Bicarbonate (CaCO3)	31.1	mg/L	5.0	1.8	1		02/09/22 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 16:28		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Sample: **BRGWA-23S** Lab ID: **92585723003** Collected: 02/01/22 10:05 Received: 02/02/22 10:25 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	3.2	mg/L	1.0	0.60	1		02/07/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 13:40	16984-48-8	
Sulfate	36.8	mg/L	1.0	0.50	1		02/07/22 13:40	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

QC Batch:	677807	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585723001, 92585723002, 92585723003

METHOD BLANK: 3547708 Matrix: Water
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/13/22 17:30	
Iron	mg/L	ND	0.040	0.025	02/13/22 17:30	
Magnesium	mg/L	ND	0.050	0.012	02/13/22 17:30	
Manganese	mg/L	ND	0.040	0.0043	02/13/22 17:30	
Potassium	mg/L	ND	0.20	0.15	02/13/22 17:30	
Sodium	mg/L	ND	1.0	0.58	02/13/22 17:30	

LABORATORY CONTROL SAMPLE: 3547709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.95	95	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3547710 3547711

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92585717001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	4.4	1	1	5.3	5.3	94	88	75-125	1	20		
Iron	mg/L	0.13	1	1	1.1	1.1	102	98	75-125	3	20		
Magnesium	mg/L	4.0	1	1	5.0	4.8	100	87	75-125	3	20		
Manganese	mg/L	0.052	1	1	1.1	1.0	102	99	75-125	3	20		
Potassium	mg/L	0.29	1	1	1.4	1.4	109	110	75-125	1	20		
Sodium	mg/L	3.1	1	1	4.1	4.1	104	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

QC Batch:	677647	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585723001, 92585723002, 92585723003

METHOD BLANK: 3546468 Matrix: Water

Associated Lab Samples: 92585723001, 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00078J	0.0030	0.00078	02/14/22 14:43	
Arsenic	mg/L	ND	0.0050	0.0011	02/14/22 14:43	
Barium	mg/L	ND	0.0050	0.00067	02/14/22 14:43	
Beryllium	mg/L	ND	0.00050	0.000054	02/14/22 14:43	
Boron	mg/L	ND	0.040	0.0086	02/14/22 14:43	
Cadmium	mg/L	ND	0.00050	0.00011	02/14/22 14:43	
Chromium	mg/L	ND	0.0050	0.0011	02/14/22 14:43	
Cobalt	mg/L	ND	0.0050	0.00039	02/14/22 14:43	
Lead	mg/L	ND	0.0010	0.00089	02/14/22 14:43	
Lithium	mg/L	ND	0.030	0.00073	02/14/22 14:43	
Molybdenum	mg/L	ND	0.010	0.00074	02/14/22 14:43	
Selenium	mg/L	ND	0.0050	0.0014	02/14/22 14:43	
Thallium	mg/L	ND	0.0010	0.00018	02/14/22 14:43	

LABORATORY CONTROL SAMPLE: 3546469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	103	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	0.11	107	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	108	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	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3546470 3546471

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92585058023	Spike Conc.	Spike Conc.	Result							
Antimony	mg/L	0.027	0.1	0.1	0.13	0.14	107	110	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

Parameter	Units	3546470		3546471		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585058023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.049	0.1	0.1	0.16	0.17	115	119	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Boron	mg/L	0.021J	1	1	0.95	0.96	93	94	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20		
Chromium	mg/L	0.0011J	0.1	0.1	0.10	0.10	104	100	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.095	100	95	75-125	6	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	0	20		
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.10	94	93	75-125	1	20		
Molybdenum	mg/L	0.0041J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	99	102	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

QC Batch: 677024 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

METHOD BLANK: 3543214 Matrix: Water
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/09/22 15:30	

LABORATORY CONTROL SAMPLE: 3543215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3543216 3543217

Parameter	Units	3543216		3543217		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92585717001 ND	0.0025	0.0025	0.0025	0.0024	98	95	75-125	4	20

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

QC Batch: 676426 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: 92585723001

METHOD BLANK: 3540491 Matrix: Water
 Associated Lab Samples: 92585723001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 15:05	

LABORATORY CONTROL SAMPLE: 3540492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	372	93	80-120	

SAMPLE DUPLICATE: 3540493

Parameter	Units	92585920001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1260	1240	1	25	

SAMPLE DUPLICATE: 3540494

Parameter	Units	92585490001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3160	2680	16	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

QC Batch: 676429 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: 92585723002, 92585723003

METHOD BLANK: 3540497 Matrix: Water
 Associated Lab Samples: 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 15:44	

LABORATORY CONTROL SAMPLE: 3540498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	380	95	80-120	

SAMPLE DUPLICATE: 3540499

Parameter	Units	92585723002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	114	114	0	25	

SAMPLE DUPLICATE: 3540500

Parameter	Units	92585727009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	459	4	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

QC Batch: 798025 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

METHOD BLANK: 4240244 Matrix: Water
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/09/22 14:38	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 14:38	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 14:38	

LABORATORY CONTROL SAMPLE & LCSD: 4240245 4240246

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	41.9	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240247 4240248

Parameter	Units	92585555010 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	8.1	40	40	50.3	51.8	106	109	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240249 4240250

Parameter	Units	10596970001 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	21.0	40	40	60.5	60.8	99	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

QC Batch: 676333 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: 92585723001, 92585723002, 92585723003

METHOD BLANK: 3540067 Matrix: Water
 Associated Lab Samples: 92585723001, 92585723002, 92585723003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 07:26	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 07:26	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 07:26	

LABORATORY CONTROL SAMPLE: 3540068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.0	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540069 3540070

Parameter	Units	92585636004		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								% Rec	% Rec
Chloride	mg/L	20.0	50	50	66.6	69.9	93	100	90-110	5	10			
Fluoride	mg/L	0.086J	2.5	2.5	2.4	2.6	92	100	90-110	7	10			
Sulfate	mg/L	25.3	50	50	71.8	75.0	93	99	90-110	4	10			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540071 3540072

Parameter	Units	92585717003		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								% Rec	% Rec
Chloride	mg/L	3.4	50	50	54.7	55.0	103	103	90-110	1	10			
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	1	10			
Sulfate	mg/L	ND	50	50	51.1	51.4	101	102	90-110	1	10			

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QUALIFIERS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92585723

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92585723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585723001	BRGWA-12S				
92585723002	BRGWA-12I				
92585723003	BRGWA-23S				
92585723001	BRGWA-12S	EPA 3010A	677807	EPA 6010D	677941
92585723002	BRGWA-12I	EPA 3010A	677807	EPA 6010D	677941
92585723003	BRGWA-23S	EPA 3010A	677807	EPA 6010D	677941
92585723001	BRGWA-12S	EPA 3005A	677647	EPA 6020B	677773
92585723002	BRGWA-12I	EPA 3005A	677647	EPA 6020B	677773
92585723003	BRGWA-23S	EPA 3005A	677647	EPA 6020B	677773
92585723001	BRGWA-12S	EPA 7470A	677024	EPA 7470A	677121
92585723002	BRGWA-12I	EPA 7470A	677024	EPA 7470A	677121
92585723003	BRGWA-23S	EPA 7470A	677024	EPA 7470A	677121
92585723001	BRGWA-12S	SM 2540C-2015	676426		
92585723002	BRGWA-12I	SM 2540C-2015	676429		
92585723003	BRGWA-23S	SM 2540C-2015	676429		
92585723001	BRGWA-12S	SM 2320B	798025		
92585723002	BRGWA-12I	SM 2320B	798025		
92585723003	BRGWA-23S	SM 2320B	798025		
92585723001	BRGWA-12S	EPA 300.0 Rev 2.1 1993	676333		
92585723002	BRGWA-12I	EPA 300.0 Rev 2.1 1993	676333		
92585723003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	676333		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-003-Rev.08	Issuing Authority: Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power
 Courier: Commercial Fed Ex UPS USPS Client Pace Other

Project #: **WO#: 92585723**



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: DD 9-2-22

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 230 Type of Ice: Swirl Blue None

Biological Storage Permits? Yes No N/A

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) + .2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.5

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 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.	
Batch 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.	
-Pair 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-min)?	<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 SCUR Review: _____ Date: _____

Project Manager SRP Review: _____ Date: _____



Document Name:
Bottle Identification Form (BIF)
 Document No.:
F-CAR-CS-043-Rev.01

Document Issued: November 25, 2021

Page 1 of 1

Issuing Authority:

North Carolina Health Office

Project #

WO# : 92585723

PR: NMC

Due Date: 02/18/22

CLIENT: CR-CR 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, DPO/BO15 (water) DOC, UMG

**Bottom half of box is to list number of bottles

Matrix	Sample	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, Plastic Unpreserved (N/A)		2	2	2									
BP10-500 ml, Plastic Unpreserved (N/A)		1	1	1									
BP10-1 liter Plastic Unpreserved (N/A)													
BP40-125 ml, Plastic HDPE (pH = 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, plastic HDPE (pH = 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml, Plastic (N Acrylate & Padded) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, Plastic (N/A) (pH = 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
WQ20-Wide mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG14-1 liter Amber HD (pH = 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG20-250 ml, Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG25-1 liter Amber HDPE (pH = 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG30-250 ml, Amber HDPE (pH = 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG34(PSMA)-250 ml, Amber HDPE (N/A)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
CG20-40 ml, VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQ9T-40 ml, VOA HD2020 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQ20-40 ml, VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
CG20-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQ40 (1 vial per lot) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQ60 (3 vials per lot) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SP2T-125 ml, Sterile Plastic (N/A) - lot		/	/	/	/	/	/	/	/	/	/	/	/
SP2T-250 ml, Sterile Plastic (N/A) - lot		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, Plastic (N/A) (pH = 2) (D-1)													
AG20-250 ml, Plastic (N/A) (pH = 2) (D-1)													
AG20-100 ml, Amber Unpreserved vials (N/A)													
VQ20-20 ml, Sterilization vials (N/A)													
CG20-40 ml, Amber Unpreserved vials (N/A)													

BP70
 SP2T

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 Official Certification Office (i.e. Out of Hold, incorrect preservative, out of time, incorrect containers).

2

CHAIN OF CUSTODY / Analytical Request Document

The Chain-of-Custody is a USDA, SOCC/USFIS all evidence items must be completed accurately.

Page: 1 of 1

Section 1 Requester Name: _____ Agency: _____ Address: _____ City: _____ State: _____ Zip: _____ Telephone: _____ Fax: _____ E-mail: _____ Date: _____	Section 2 Requester Project/Location: _____ Report No.: _____ Date: _____ Requester Contact: _____ Requester Title: _____ Requester Phone: _____ Requester Fax: _____ Requester Email: _____	Section 3 Sample Description: _____ Sample Type: _____ Sample Weight: _____ Sample Volume: _____ Sample Container: _____ Sample Location: _____ Sample Date: _____ Sample Time: _____ Sample Temperature: _____ Sample Storage: _____ Sample Handling: _____	Section 4 Requester Signature: _____ Title: _____ Date: _____
---	---	--	---

ITEM #	DESCRIPTION	QUANTITY	UNIT	DATE	TIME	INITIALS	SIGNATURE	REMARKS	ANALYSIS
1	SAMPLE ID								
2	...								
3	...								
4	...								
5	...								
6	...								
7	...								
8	...								
9	...								
10	...								
11	...								
12	...								

Sub-Signature / Date

Date: 2/2/22



March 04, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD BACKGROUND RAD
Pace Project No.: 92585712

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 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 - Greensburg

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

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CERTIFICATIONS

Project: BRANCH AP-BCD BACKGROUND RAD
Pace Project No.: 92585712

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: BRANCH AP-BCD BACKGROUND RAD
Pace Project No.: 92585712

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585712001	BRGWA-12S	Water	02/01/22 13:54	02/02/22 10:25
92585712002	BRGWA-12I	Water	02/01/22 12:24	02/02/22 10:25
92585712003	BRGWA-23S	Water	02/01/22 10:06	02/02/22 10:25

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585712001	BRGWA-12S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585712002	BRGWA-12I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585712003	BRGWA-23S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585712001	BRGWA-12S					
EPA 9315	Radium-226	0.143 ± 0.107 (0.170) C:99% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.516 ± 0.372 (0.719) C:78% T:85%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	0.659 ± 0.479 (0.889)	pCi/L		02/22/22 17:04	
92585712002	BRGWA-12I					
EPA 9315	Radium-226	0.185 ± 0.122 (0.185) C:96% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.648 ± 0.408 (0.760) C:76% T:84%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	0.833 ± 0.530 (0.945)	pCi/L		02/22/22 17:04	
92585712003	BRGWA-23S					
EPA 9315	Radium-226	0.456 ± 0.192 (0.238) C:99% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.696 ± 0.386 (0.692) C:80% T:86%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	1.15 ± 0.578 (0.930)	pCi/L		02/22/22 17:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-12S Lab ID: 92585712001 Collected: 02/01/22 13:54 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.143 ± 0.107 (0.170) C:99% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.516 ± 0.372 (0.719) C:78% T:85%	pCi/L	02/17/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.659 ± 0.479 (0.889)	pCi/L	02/22/22 17:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-12I Lab ID: 92585712002 Collected: 02/01/22 12:24 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.185 ± 0.122 (0.185) C:96% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.648 ± 0.408 (0.760) C:76% T:84%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.833 ± 0.530 (0.945)	pCi/L	02/22/22 17:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-23S Lab ID: 92585712003 Collected: 02/01/22 10:06 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.456 ± 0.192 (0.238) C:99% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.696 ± 0.386 (0.692) C:80% T:86%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.15 ± 0.578 (0.930)	pCi/L	02/22/22 17:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

QC Batch: 482652

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585712001, 92585712002, 92585712003

METHOD BLANK: 2332806

Matrix: Water

Associated Lab Samples: 92585712001, 92585712002, 92585712003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.173 ± 0.305 (0.667) C:77% T:85%	pCi/L	02/17/22 12:45	

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 AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

QC Batch: 482985

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585712001, 92585712002, 92585712003

METHOD BLANK: 2335102

Matrix: Water

Associated Lab Samples: 92585712001, 92585712002, 92585712003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0320 ± 0.0849 (0.207) C:96% T:NA	pCi/L	02/22/22 10:50	

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: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD BACKGROUND RAD

Pace Project No.: 92585712

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585712001	BRGWA-12S	EPA 9315	482985		
92585712002	BRGWA-12I	EPA 9315	482985		
92585712003	BRGWA-23S	EPA 9315	482985		
92585712001	BRGWA-12S	EPA 9320	482652		
92585712002	BRGWA-12I	EPA 9320	482652		
92585712003	BRGWA-23S	EPA 9320	482652		
92585712001	BRGWA-12S	Total Radium Calculation	485742		
92585712002	BRGWA-12I	Total Radium Calculation	485742		
92585712003	BRGWA-23S	Total Radium Calculation	485742		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
P-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92585712



Carrier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Contents: *10 9-2-23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun (N/A) *230* Type of Ice: Dry Blue None

Yes No N/A

Cooler Temp: *1.3* Correction Factor: Add/Subtract (°C) *+ .2*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *1.5*

USDA Regulated Soil (No/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

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.
Batch Turn Around Time Requested?	<input checked="" 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	<i>WT</i>			
Headspace in VOC 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

(set ID of spill containers)

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Bottle Identification Form (BIF)
Document No:
F-CAR-CS-043-Rev.03

Document Issued: November 23, 2021
Page 1 of 1
Issuing Authority:
Paco Carolina 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, DBO/DO15 (aerated) DOC, L/Hg

**Bottom half of box is to list number of bottles

Project # **WO# : 92585712**

PH: NMG

Due Date: 02/23/22

CLIENT: GR-GR Power

Matrix	Sample	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 ml, Plastic Unpreserved (P/U) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP5U-250 ml, Plastic Unpreserved (P/U)		2	2	2	/	/	/	/	/	/	/	/	/
BP5U-500 ml, Plastic Unpreserved (P/U)		1	1	1	/	/	/	/	/	/	/	/	/
BP5U-1 liter Plastic Unpreserved (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml, Plastic IC1504 (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP5U-250 ml, plastic, 5003 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml, Plastic (w/ Acetate & NaOH) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml, Plastic NaOH (pH > 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
1000ml Wide-mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
A010U-1 liter Amber Unpreserved (P/U) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
A010U-1 liter Amber (D) (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010U-250 ml, Amber Unpreserved (P/U) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
M01U-1 liter Amber IC1504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010U-250 ml, Amber IC1504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010U(500ml)-250 ml, Amber 5003 (P/U)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
D010U-60 ml, VOA (D) (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
V010U-60 ml, VOA IC12003 (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
V010U-60 ml, VOA Unpreserved (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
D010U-60 ml, VOA IC1504 (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
V010U (3 vials per lot)-50.03 lot (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
V10U (3 vials per lot)-100/100 lot (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
S01U-100 ml, Sample Plastic (P/U) - 100		/	/	/	/	/	/	/	/	/	/	/	/
S01U-250 ml, Sample Plastic (P/U) - 100		/	/	/	/	/	/	/	/	/	/	/	/
BP5U-250 ml, Plastic (IC1504) (D-1-5-7)		/	/	/	/	/	/	/	/	/	/	/	/
A010U-100 ml, Amber Unpreserved vials (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
V010U-20 ml, Sublimation vials (P/U)		/	/	/	/	/	/	/	/	/	/	/	/
D010U-60 ml, Amber Unpreserved vials (P/U)		/	/	/	/	/	/	/	/	/	/	/	/

BP IN
V010U

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 DDMH Certification Office (i.e. Out of field, incorrect preservative, out of time, incorrect containers).

20200000

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant boxes should be completed accurately.

Page: 1 of 2

Section I Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester City: [Blank] Requester State: [Blank] Requester Zip: [Blank] Requester Phone: [Blank] Requester Fax: [Blank]		Section II Requested Project Information: Project No.: [Blank] Requested By: [Blank] Requested Date: [Blank]		Section III Sample Information: Sample Name: [Blank] Sample ID: [Blank] Sample Description: [Blank]	
--	--	---	--	--	--

ITEM #	SAMPLE ID	Description of Sample	Date	Time	Location	Collector	Date	Time	Location	Physical Analysis Request (Y/N)		Remarks
										GC/MS	GC/MS	
1	10000001	Sample 1	1/15/12	10:00	10000001	John Doe	1/15/12	10:00	10000001	Y	Y	
2	10000002	Sample 2	1/15/12	11:00	10000002	John Doe	1/15/12	11:00	10000002	Y	Y	
3	10000003	Sample 3	1/15/12	12:00	10000003	John Doe	1/15/12	12:00	10000003	Y	Y	
4	10000004	Sample 4	1/15/12	13:00	10000004	John Doe	1/15/12	13:00	10000004	Y	Y	
5	10000005	Sample 5	1/15/12	14:00	10000005	John Doe	1/15/12	14:00	10000005	Y	Y	
6	10000006	Sample 6	1/15/12	15:00	10000006	John Doe	1/15/12	15:00	10000006	Y	Y	
7	10000007	Sample 7	1/15/12	16:00	10000007	John Doe	1/15/12	16:00	10000007	Y	Y	
8	10000008	Sample 8	1/15/12	17:00	10000008	John Doe	1/15/12	17:00	10000008	Y	Y	
9	10000009	Sample 9	1/15/12	18:00	10000009	John Doe	1/15/12	18:00	10000009	Y	Y	
10	10000010	Sample 10	1/15/12	19:00	10000010	John Doe	1/15/12	19:00	10000010	Y	Y	
11	10000011	Sample 11	1/15/12	20:00	10000011	John Doe	1/15/12	20:00	10000011	Y	Y	
12	10000012	Sample 12	1/15/12	21:00	10000012	John Doe	1/15/12	21:00	10000012	Y	Y	

John Doe / Sample 1 / Date: 1/15/12

Quality Control Sample Performance Assessment

Approved by: *[Signature]* Date: *[Date]*

Sample Name	Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results	Sample Comments
Sample 1	101	Water	Well A	10/15/20	10:00	Pass	100%	Sample 1: Water sample from Well A, 10/15/20, 10:00. Results: 100% Pass. Comments: Clear, no odor.
Sample 2	102	Water	Well B	10/15/20	10:15	Pass	100%	Sample 2: Water sample from Well B, 10/15/20, 10:15. Results: 100% Pass. Comments: Clear, no odor.
Sample 3	103	Water	Well C	10/15/20	10:30	Pass	100%	Sample 3: Water sample from Well C, 10/15/20, 10:30. Results: 100% Pass. Comments: Clear, no odor.
Sample 4	104	Water	Well D	10/15/20	10:45	Pass	100%	Sample 4: Water sample from Well D, 10/15/20, 10:45. Results: 100% Pass. Comments: Clear, no odor.
Sample 5	105	Water	Well E	10/15/20	11:00	Pass	100%	Sample 5: Water sample from Well E, 10/15/20, 11:00. Results: 100% Pass. Comments: Clear, no odor.
Sample 6	106	Water	Well F	10/15/20	11:15	Pass	100%	Sample 6: Water sample from Well F, 10/15/20, 11:15. Results: 100% Pass. Comments: Clear, no odor.
Sample 7	107	Water	Well G	10/15/20	11:30	Pass	100%	Sample 7: Water sample from Well G, 10/15/20, 11:30. Results: 100% Pass. Comments: Clear, no odor.
Sample 8	108	Water	Well H	10/15/20	11:45	Pass	100%	Sample 8: Water sample from Well H, 10/15/20, 11:45. Results: 100% Pass. Comments: Clear, no odor.
Sample 9	109	Water	Well I	10/15/20	12:00	Pass	100%	Sample 9: Water sample from Well I, 10/15/20, 12:00. Results: 100% Pass. Comments: Clear, no odor.
Sample 10	110	Water	Well J	10/15/20	12:15	Pass	100%	Sample 10: Water sample from Well J, 10/15/20, 12:15. Results: 100% Pass. Comments: Clear, no odor.
Sample 11	111	Water	Well K	10/15/20	12:30	Pass	100%	Sample 11: Water sample from Well K, 10/15/20, 12:30. Results: 100% Pass. Comments: Clear, no odor.
Sample 12	112	Water	Well L	10/15/20	12:45	Pass	100%	Sample 12: Water sample from Well L, 10/15/20, 12:45. Results: 100% Pass. Comments: Clear, no odor.
Sample 13	113	Water	Well M	10/15/20	13:00	Pass	100%	Sample 13: Water sample from Well M, 10/15/20, 13:00. Results: 100% Pass. Comments: Clear, no odor.
Sample 14	114	Water	Well N	10/15/20	13:15	Pass	100%	Sample 14: Water sample from Well N, 10/15/20, 13:15. Results: 100% Pass. Comments: Clear, no odor.
Sample 15	115	Water	Well O	10/15/20	13:30	Pass	100%	Sample 15: Water sample from Well O, 10/15/20, 13:30. Results: 100% Pass. Comments: Clear, no odor.
Sample 16	116	Water	Well P	10/15/20	13:45	Pass	100%	Sample 16: Water sample from Well P, 10/15/20, 13:45. Results: 100% Pass. Comments: Clear, no odor.
Sample 17	117	Water	Well Q	10/15/20	14:00	Pass	100%	Sample 17: Water sample from Well Q, 10/15/20, 14:00. Results: 100% Pass. Comments: Clear, no odor.
Sample 18	118	Water	Well R	10/15/20	14:15	Pass	100%	Sample 18: Water sample from Well R, 10/15/20, 14:15. Results: 100% Pass. Comments: Clear, no odor.
Sample 19	119	Water	Well S	10/15/20	14:30	Pass	100%	Sample 19: Water sample from Well S, 10/15/20, 14:30. Results: 100% Pass. Comments: Clear, no odor.
Sample 20	120	Water	Well T	10/15/20	14:45	Pass	100%	Sample 20: Water sample from Well T, 10/15/20, 14:45. Results: 100% Pass. Comments: Clear, no odor.

[Signature]



March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD DELIN PIEZO
Pace Project No.: 92585979

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

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CERTIFICATIONS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

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 DELIN PIEZO
Pace Project No.: 92585979

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 DELIN PIEZO

Pace Project No.: 92585979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585979001	PZ-51S	Water	02/02/22 13:56	02/03/22 10:35
92585979002	PZ-44	Water	02/02/22 12:23	02/03/22 10:35
92585979003	PZ-51I	Water	02/02/22 16:20	02/03/22 10:35
92585979004	PZ-61I	Water	02/02/22 15:42	02/03/22 10:35
92585979005	FB-2	Water	02/02/22 14:22	02/03/22 10:35
92585979006	EB-2	Water	02/02/22 16:18	02/03/22 10:35
92585979007	PZ-58I	Water	02/03/22 14:13	02/04/22 16:06
92585979008	PZ-59I	Water	02/03/22 12:40	02/04/22 16:06
92585979009	PZ-60I	Water	02/03/22 10:45	02/04/22 16:06
92585979010	PZ-50D	Water	02/03/22 10:54	02/04/22 16:06
92585979011	PZ-51D	Water	02/03/22 16:15	02/04/22 16:06
92585979012	PZ-57I	Water	02/04/22 08:54	02/04/22 16:06
92585979013	PZ-63I	Water	02/04/22 10:15	02/04/22 16:06
92585979014	PZ-62I	Water	02/04/22 10:10	02/04/22 16:06
92585979015	FB-3	Water	02/03/22 11:10	02/04/22 16:06

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585979001	PZ-51S	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
92585979002	PZ-44	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
92585979003	PZ-51I	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
92585979004	PZ-61I	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
92585979005	FB-2	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	1	PASI-GA
92585979006	EB-2	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	1	PASI-GA
92585979007	PZ-58I	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 6010D	KH	7	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585979008	PZ-59I	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
		SM 5310B	AGS	1	PASI-O
		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
92585979009	PZ-60I	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
		SM 5310B	AGS	1	PASI-O
		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		
92585979010	PZ-50D	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
92585979011	PZ-51D	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	6	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585979012	PZ-57I	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	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
		SM 2320B	AR3	3	PASI-M
92585979013	PZ-63I	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
		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
92585979014	PZ-62I	SM 2540C-2015	ALW	1	PASI-GA
		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
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
92585979015	FB-3	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
		EPA 6010D	KH	1	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

PASI-A = Pace Analytical Services - Asheville
 PASI-C = Pace Analytical Services - Charlotte
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA
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REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979001	PZ-51S					
	Performed by	CUSTOMER			02/03/22 13:02	
	pH	6.19	Std. Units		02/03/22 13:02	
EPA 6010D	Manganese	1.7	mg/L	0.040	02/16/22 16:37	
EPA 6010D	Potassium	2.4	mg/L	0.20	02/16/22 16:37	
EPA 6010D	Sodium	10.7	mg/L	1.0	02/16/22 16:37	
EPA 6010D	Calcium	7.8	mg/L	1.0	02/16/22 16:37	
EPA 6010D	Magnesium	9.1	mg/L	0.050	02/16/22 16:37	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/16/22 18:25	
EPA 6020B	Barium	0.027	mg/L	0.0050	02/16/22 18:25	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	02/16/22 18:25	
SM 2540C-2015	Total Dissolved Solids	98.0	mg/L	10.0	02/08/22 10:49	
SM 2320B	Alkalinity, Total as CaCO3	69.6	mg/L	5.0	02/10/22 15:49	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	69.6	mg/L	5.0	02/10/22 15:49	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/08/22 04:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/08/22 04:57	
92585979002	PZ-44					
	Performed by	CUSTOMER			02/03/22 13:03	
	pH	6.20	Std. Units		02/03/22 13:03	
EPA 6010D	Iron	0.29	mg/L	0.040	02/16/22 16:42	
EPA 6010D	Manganese	0.41	mg/L	0.040	02/16/22 16:42	
EPA 6010D	Potassium	2.7	mg/L	0.20	02/16/22 16:42	
EPA 6010D	Sodium	11.6	mg/L	1.0	02/16/22 16:42	
EPA 6010D	Calcium	25.1	mg/L	1.0	02/16/22 16:42	
EPA 6010D	Magnesium	10.9	mg/L	0.050	02/16/22 16:42	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/16/22 18:31	
EPA 6020B	Barium	0.052	mg/L	0.0050	02/16/22 18:31	
EPA 6020B	Boron	1.6	mg/L	0.040	02/16/22 18:31	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	02/16/22 18:31	
SM 2540C-2015	Total Dissolved Solids	181	mg/L	10.0	02/08/22 10:49	
SM 2320B	Alkalinity, Total as CaCO3	76.6	mg/L	5.0	02/10/22 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	76.6	mg/L	5.0	02/10/22 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	02/08/22 05:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	02/08/22 05:11	
EPA 300.0 Rev 2.1 1993	Sulfate	45.3	mg/L	1.0	02/08/22 05:11	
92585979003	PZ-51I					
	Performed by	CUSTOMER			02/03/22 13:03	
	pH	5.44	Std. Units		02/03/22 13:03	
EPA 6010D	Iron	0.046	mg/L	0.040	02/16/22 16:47	
EPA 6010D	Potassium	10.9	mg/L	0.20	02/16/22 16:47	M1
EPA 6010D	Sodium	43.3	mg/L	1.0	02/16/22 16:47	M1
EPA 6010D	Calcium	187	mg/L	1.0	02/16/22 16:47	M1
EPA 6010D	Magnesium	121	mg/L	0.050	02/16/22 16:47	M1
EPA 6010D	Manganese	41.9	mg/L	0.20	02/17/22 13:20	M1
EPA 6020B	Barium	0.015	mg/L	0.0050	02/16/22 18:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979003	PZ-51I					
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/16/22 18:37	
EPA 6020B	Boron	0.42	mg/L	0.040	02/16/22 18:37	
EPA 6020B	Cadmium	0.0043	mg/L	0.00050	02/16/22 18:37	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	02/16/22 18:37	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/16/22 18:37	
SM 2540C-2015	Total Dissolved Solids	1590	mg/L	50.0	02/08/22 10:49	
SM 2320B	Alkalinity, Total as CaCO3	22.4	mg/L	5.0	02/10/22 16:30	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	22.4	mg/L	5.0	02/10/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	9.7	mg/L	1.0	02/08/22 05:25	
EPA 300.0 Rev 2.1 1993	Sulfate	889	mg/L	21.0	02/08/22 17:05	
92585979004	PZ-61I					
	Performed by	CUSTOME			02/03/22 13:03	
		R				
	pH	5.25	Std. Units		02/03/22 13:03	
EPA 6010D	Iron	0.97	mg/L	0.040	02/16/22 17:07	
EPA 6010D	Potassium	7.4	mg/L	0.20	02/16/22 17:07	
EPA 6010D	Sodium	57.2	mg/L	1.0	02/16/22 17:07	
EPA 6010D	Calcium	215	mg/L	1.0	02/16/22 17:07	
EPA 6010D	Manganese	106	mg/L	0.20	02/17/22 13:34	
EPA 6010D	Magnesium	173	mg/L	0.25	02/17/22 13:34	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/16/22 18:43	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	02/16/22 18:43	
EPA 6020B	Boron	0.32	mg/L	0.040	02/16/22 18:43	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/16/22 18:43	
EPA 6020B	Cobalt	0.51	mg/L	0.0050	02/16/22 18:43	M1
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/16/22 18:43	
EPA 6020B	Selenium	0.0031J	mg/L	0.0050	02/16/22 18:43	
SM 2540C-2015	Total Dissolved Solids	1970	mg/L	100	02/08/22 10:50	
SM 2320B	Alkalinity, Total as CaCO3	14.4	mg/L	5.0	02/10/22 19:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	14.4	mg/L	5.0	02/10/22 19:39	
EPA 300.0 Rev 2.1 1993	Chloride	19.2	mg/L	1.0	02/08/22 05:39	
EPA 300.0 Rev 2.1 1993	Sulfate	1230	mg/L	29.0	02/08/22 17:19	
92585979005	FB-2					
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/16/22 19:07	
92585979007	PZ-58I					
	Performed by	CUSTOME			02/07/22 10:11	
		R				
	pH	3.90	Std. Units		02/07/22 10:11	
EPA 6010D	Iron	46.6	mg/L	0.040	02/16/22 17:35	
EPA 6010D	Manganese	23.4	mg/L	0.040	02/16/22 17:35	
EPA 6010D	Potassium	7.7	mg/L	0.20	02/16/22 17:35	
EPA 6010D	Sodium	29.8	mg/L	1.0	02/16/22 17:35	
EPA 6010D	Calcium	120	mg/L	1.0	02/16/22 17:35	
EPA 6010D	Magnesium	67.0	mg/L	0.050	02/16/22 17:35	
EPA 6010D	Hardness, Total(SM 2340B)	575	mg/L	2.7	02/16/22 17:35	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/15/22 21:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979007	PZ-58I					
EPA 6020B	Beryllium	0.027	mg/L	0.00050	02/15/22 21:34	
EPA 6020B	Boron	0.38	mg/L	0.040	02/15/22 21:34	
EPA 6020B	Cadmium	0.0038	mg/L	0.00050	02/15/22 21:34	
EPA 6020B	Cobalt	0.43	mg/L	0.0050	02/15/22 21:34	
EPA 6020B	Lithium	0.041	mg/L	0.030	02/15/22 21:34	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	02/15/22 21:34	
SM 2540C-2015	Total Dissolved Solids	1170	mg/L	20.0	02/09/22 10:13	
SM 3500-Fe B-2011	Iron, Ferrous	47.3	mg/L	12.5	02/09/22 12:28	H3,N2
EPA 300.0 Rev 2.1 1993	Chloride	11.9	mg/L	1.0	02/10/22 23:50	
EPA 300.0 Rev 2.1 1993	Fluoride	1.8	mg/L	0.10	02/10/22 23:50	
EPA 300.0 Rev 2.1 1993	Sulfate	767	mg/L	16.0	02/11/22 06:38	
EPA 353.2 Rev 2.0 1993	Nitrogen, NO2 plus NO3	0.071	mg/L	0.040	02/18/22 09:49	
92585979008	PZ-59I					
	Performed by	CUSTOMER			02/07/22 10:11	
	pH	3.71	Std. Units		02/07/22 10:11	
EPA 6010D	Iron	345	mg/L	0.20	02/17/22 13:39	
EPA 6010D	Manganese	60.6	mg/L	0.20	02/17/22 13:39	
EPA 6010D	Potassium	15.6	mg/L	1.0	02/17/22 13:39	
EPA 6010D	Sodium	75.5	mg/L	5.0	02/17/22 13:39	
EPA 6010D	Calcium	213	mg/L	5.0	02/17/22 13:39	
EPA 6010D	Magnesium	157	mg/L	0.25	02/17/22 13:39	
EPA 6010D	Hardness, Total(SM 2340B)	1180	mg/L	13.5	02/17/22 13:39	
EPA 6020B	Arsenic	0.017	mg/L	0.0050	02/15/22 21:39	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/15/22 21:39	
EPA 6020B	Beryllium	0.12	mg/L	0.0025	02/16/22 20:51	
EPA 6020B	Boron	0.055J	mg/L	0.20	02/16/22 20:51	D3
EPA 6020B	Cadmium	0.0060	mg/L	0.00050	02/15/22 21:39	
EPA 6020B	Chromium	0.0032J	mg/L	0.0050	02/15/22 21:39	
EPA 6020B	Cobalt	1.6	mg/L	0.025	02/16/22 20:51	
EPA 6020B	Lithium	0.19	mg/L	0.15	02/16/22 20:51	
EPA 6020B	Selenium	0.090	mg/L	0.0050	02/15/22 21:39	
SM 2540C-2015	Total Dissolved Solids	3610	mg/L	100	02/09/22 10:13	
SM 3500-Fe D#4	Iron, Ferric	342	mg/L	0.50	02/18/22 12:06	N2
SM 3500-Fe B-2011	Iron, Ferrous	2.6	mg/L	0.50	02/09/22 11:36	H3,N2
EPA 300.0 Rev 2.1 1993	Chloride	36.5	mg/L	1.0	02/11/22 01:09	
EPA 300.0 Rev 2.1 1993	Fluoride	2.7	mg/L	0.10	02/11/22 01:09	
EPA 300.0 Rev 2.1 1993	Sulfate	2600	mg/L	50.0	02/11/22 08:21	
SM 5310B	Dissolved Organic Carbon	1.3	mg/L	1.0	02/10/22 20:48	
92585979009	PZ-60I					
	Performed by	CUSTOMER			02/07/22 10:11	
	pH	4.73	Std. Units		02/07/22 10:11	
EPA 6010D	Iron	0.34	mg/L	0.040	02/16/22 17:44	
EPA 6010D	Potassium	13.8	mg/L	0.20	02/16/22 17:44	
EPA 6010D	Sodium	59.2	mg/L	1.0	02/16/22 17:44	
EPA 6010D	Manganese	166	mg/L	0.40	02/17/22 13:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979009	PZ-60I					
EPA 6010D	Calcium	279	mg/L	10.0	02/17/22 13:43	
EPA 6010D	Magnesium	182	mg/L	0.50	02/17/22 13:43	
EPA 6010D	Hardness, Total(SM 2340B)	1450	mg/L	27.0	02/17/22 13:43	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/15/22 21:45	
EPA 6020B	Beryllium	0.072	mg/L	0.00050	02/15/22 21:45	
EPA 6020B	Boron	0.25	mg/L	0.040	02/15/22 21:45	
EPA 6020B	Cadmium	0.016	mg/L	0.00050	02/15/22 21:45	
EPA 6020B	Cobalt	3.4	mg/L	0.025	02/15/22 21:51	
EPA 6020B	Lithium	0.098	mg/L	0.030	02/15/22 21:45	
EPA 6020B	Selenium	0.0026J	mg/L	0.0050	02/15/22 21:45	
SM 2540C-2015	Total Dissolved Solids	2480	mg/L	100	02/09/22 10:13	
SM 2320B	Alkalinity, Total as CaCO3	3.2J	mg/L	5.0	02/10/22 14:34	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	3.2J	mg/L	5.0	02/10/22 14:34	
SM 3500-Fe B-2011	Iron, Ferrous	0.22J	mg/L	0.50	02/09/22 11:31	H3,N2
EPA 300.0 Rev 2.1 1993	Chloride	30.7	mg/L	1.0	02/11/22 01:24	
EPA 300.0 Rev 2.1 1993	Fluoride	2.3	mg/L	0.10	02/11/22 01:24	
EPA 300.0 Rev 2.1 1993	Sulfate	2020	mg/L	37.0	02/11/22 07:37	
SM 5310B	Dissolved Organic Carbon	0.57 I	mg/L	1.0	02/10/22 21:41	
92585979010	PZ-50D					
	Performed by	CUSTOME			02/07/22 10:12	
		R				
	pH	6.24	Std. Units		02/07/22 10:12	
EPA 6010D	Iron	4.8	mg/L	0.040	02/16/22 17:49	
EPA 6010D	Manganese	9.7	mg/L	0.040	02/16/22 17:49	
EPA 6010D	Potassium	13.3	mg/L	0.20	02/16/22 17:49	
EPA 6010D	Sodium	47.5	mg/L	1.0	02/16/22 17:49	
EPA 6010D	Calcium	222	mg/L	1.0	02/16/22 17:49	
EPA 6010D	Magnesium	82.6	mg/L	0.050	02/16/22 17:49	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	02/16/22 19:31	
EPA 6020B	Barium	0.033	mg/L	0.0050	02/16/22 19:31	
EPA 6020B	Boron	0.22	mg/L	0.040	02/17/22 10:28	
EPA 6020B	Cobalt	0.10	mg/L	0.0050	02/16/22 19:31	
EPA 6020B	Lithium	0.024J	mg/L	0.030	02/16/22 19:31	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/16/22 19:31	
SM 2540C-2015	Total Dissolved Solids	1380	mg/L	50.0	02/09/22 10:13	
SM 2320B	Alkalinity, Total as CaCO3	72.9	mg/L	5.0	02/10/22 14:42	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	72.9	mg/L	5.0	02/10/22 14:42	
EPA 300.0 Rev 2.1 1993	Chloride	12.5	mg/L	1.0	02/11/22 01:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	02/11/22 01:39	
EPA 300.0 Rev 2.1 1993	Sulfate	903	mg/L	18.0	02/11/22 07:51	
92585979011	PZ-51D					
	Performed by	CUSTOME			02/07/22 10:12	
		R				
	pH	6.77	Std. Units		02/07/22 10:12	
EPA 6010D	Iron	2.2	mg/L	0.040	02/16/22 17:54	
EPA 6010D	Manganese	1.2	mg/L	0.040	02/16/22 17:54	
EPA 6010D	Potassium	10.7	mg/L	0.20	02/16/22 17:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979011	PZ-51D					
EPA 6010D	Sodium	39.8	mg/L	1.0	02/16/22 17:54	
EPA 6010D	Calcium	122	mg/L	1.0	02/16/22 17:54	
EPA 6010D	Magnesium	29.8	mg/L	0.050	02/16/22 17:54	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/16/22 19:36	
EPA 6020B	Barium	0.057	mg/L	0.0050	02/16/22 19:36	
EPA 6020B	Boron	0.034J	mg/L	0.040	02/16/22 19:36	
EPA 6020B	Lithium	0.0096J	mg/L	0.030	02/16/22 19:36	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	02/16/22 19:36	
SM 2540C-2015	Total Dissolved Solids	686	mg/L	20.0	02/09/22 10:13	
SM 2320B	Alkalinity, Total as CaCO3	133	mg/L	5.0	02/10/22 14:46	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	02/10/22 14:46	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	02/11/22 01:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	02/11/22 01:54	
EPA 300.0 Rev 2.1 1993	Sulfate	339	mg/L	7.0	02/11/22 08:06	
92585979012	PZ-57I					
	Performed by	CUSTOME			02/07/22 10:12	
		R				
	pH	5.28	Std. Units		02/07/22 10:12	
EPA 6010D	Iron	2.0	mg/L	0.040	02/16/22 17:59	
EPA 6010D	Manganese	17.1	mg/L	0.040	02/16/22 17:59	
EPA 6010D	Potassium	5.0	mg/L	0.20	02/16/22 17:59	
EPA 6010D	Sodium	18.4	mg/L	1.0	02/16/22 17:59	
EPA 6010D	Calcium	67.6	mg/L	1.0	02/16/22 17:59	
EPA 6010D	Magnesium	40.3	mg/L	0.050	02/16/22 17:59	
EPA 6020B	Barium	0.024	mg/L	0.0050	02/16/22 19:42	
EPA 6020B	Beryllium	0.00054	mg/L	0.00050	02/16/22 19:42	
EPA 6020B	Boron	0.51	mg/L	0.20	02/17/22 10:34	
EPA 6020B	Cadmium	0.00072	mg/L	0.00050	02/16/22 19:42	
EPA 6020B	Cobalt	0.094	mg/L	0.0050	02/16/22 19:42	
EPA 6020B	Lithium	0.026J	mg/L	0.030	02/16/22 19:42	
SM 2540C-2015	Total Dissolved Solids	630	mg/L	20.0	02/09/22 18:02	
SM 2320B	Alkalinity, Total as CaCO3	13.3	mg/L	5.0	02/10/22 17:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	13.3	mg/L	5.0	02/10/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	02/11/22 12:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.096J	mg/L	0.10	02/11/22 12:18	
EPA 300.0 Rev 2.1 1993	Sulfate	336	mg/L	8.0	02/11/22 23:38	
92585979013	PZ-63I					
	Performed by	CUSTOME			02/07/22 10:12	
		R				
	pH	5.89	Std. Units		02/07/22 10:12	
EPA 6010D	Iron	2.3	mg/L	0.040	02/16/22 18:04	
EPA 6010D	Manganese	5.5	mg/L	0.040	02/16/22 18:04	
EPA 6010D	Potassium	8.9	mg/L	0.20	02/16/22 18:04	
EPA 6010D	Sodium	16.2	mg/L	1.0	02/16/22 18:04	
EPA 6010D	Calcium	42.2	mg/L	1.0	02/16/22 18:04	
EPA 6010D	Magnesium	29.2	mg/L	0.050	02/16/22 18:04	
EPA 6020B	Barium	0.037	mg/L	0.0050	02/16/22 19:48	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585979013	PZ-63I					
EPA 6020B	Boron	0.67	mg/L	0.20	02/17/22 10:40	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	02/16/22 19:48	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	02/16/22 19:48	
EPA 6020B	Molybdenum	0.00092J	mg/L	0.010	02/16/22 19:48	
SM 2540C-2015	Total Dissolved Solids	403	mg/L	10.0	02/09/22 18:02	
SM 2320B	Alkalinity, Total as CaCO3	37.1	mg/L	5.0	02/10/22 14:54	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	37.1	mg/L	5.0	02/10/22 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/11/22 12:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/11/22 12:32	
EPA 300.0 Rev 2.1 1993	Sulfate	195	mg/L	5.0	02/11/22 23:52	
92585979014	PZ-62I					
	Performed by	CUSTOME			02/07/22 10:12	
		R				
	pH	5.79	Std. Units		02/07/22 10:12	
EPA 6010D	Iron	3.7	mg/L	0.040	02/16/22 18:09	
EPA 6010D	Manganese	24.8	mg/L	0.040	02/16/22 18:09	
EPA 6010D	Potassium	10.9	mg/L	0.20	02/16/22 18:09	
EPA 6010D	Sodium	28.7	mg/L	1.0	02/16/22 18:09	
EPA 6010D	Calcium	102	mg/L	1.0	02/16/22 18:09	
EPA 6010D	Magnesium	54.1	mg/L	0.050	02/16/22 18:09	
EPA 6020B	Barium	0.058	mg/L	0.0050	02/16/22 19:54	
EPA 6020B	Boron	0.50	mg/L	0.20	02/17/22 10:46	
EPA 6020B	Cadmium	0.00040J	mg/L	0.00050	02/16/22 19:54	
EPA 6020B	Cobalt	0.27	mg/L	0.0050	02/16/22 19:54	
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/16/22 19:54	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/16/22 19:54	
SM 2540C-2015	Total Dissolved Solids	818	mg/L	20.0	02/09/22 18:03	
SM 2320B	Alkalinity, Total as CaCO3	40.9	mg/L	5.0	02/10/22 15:04	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	40.9	mg/L	5.0	02/10/22 15:04	
EPA 300.0 Rev 2.1 1993	Chloride	9.8	mg/L	1.0	02/11/22 12:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/11/22 12:46	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	11.0	02/12/22 00:06	
92585979015	FB-3					
SM 2540C-2015	Total Dissolved Solids	14.0	mg/L	10.0	02/09/22 10:14	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-51S **Lab ID: 92585979001** Collected: 02/02/22 13:56 Received: 02/03/22 10:35 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

Performed by	CUSTOMER				1		02/03/22 13:02		
pH	6.19	Std. Units			1		02/03/22 13:02		

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	02/16/22 07:50	02/16/22 16:37	7439-89-6	
Manganese	1.7	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 16:37	7439-96-5	
Potassium	2.4	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 16:37	7440-09-7	
Sodium	10.7	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 16:37	7440-23-5	
Calcium	7.8	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 16:37	7440-70-2	
Magnesium	9.1	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 16:37	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	02/16/22 07:51	02/16/22 18:25	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:25	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 18:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 18:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:25	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 18:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 18:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 18:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 18:25	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 10:22	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	98.0	mg/L	10.0	10.0	1		02/08/22 10:49		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	69.6	mg/L	5.0	1.8	1		02/10/22 15:49		
Alkalinity,Bicarbonate (CaCO3)	69.6	mg/L	5.0	1.8	1		02/10/22 15:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:49		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: **PZ-51S** Lab ID: **92585979001** Collected: 02/02/22 13:56 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	4.2	mg/L	1.0	0.60	1		02/08/22 04:57	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/08/22 04:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/22 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-44 **Lab ID: 92585979002** Collected: 02/02/22 12:23 Received: 02/03/22 10:35 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

Performed by	CUSTOMER				1		02/03/22 13:03		
pH	6.20	Std. Units			1		02/03/22 13:03		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.29	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 16:42	7439-89-6	
Manganese	0.41	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 16:42	7439-96-5	
Potassium	2.7	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 16:42	7440-09-7	
Sodium	11.6	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 16:42	7440-23-5	
Calcium	25.1	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 16:42	7440-70-2	
Magnesium	10.9	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 16:42	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/16/22 07:51	02/16/22 18:31	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:31	7440-38-2	
Barium	0.052	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 18:31	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 18:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 18:31	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 18:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 18:31	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 10:25	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	181	mg/L	10.0	10.0	1		02/08/22 10:49		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	76.6	mg/L	5.0	1.8	1		02/10/22 16:26		
Alkalinity,Bicarbonate (CaCO3)	76.6	mg/L	5.0	1.8	1		02/10/22 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 16:26		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-44 Lab ID: 92585979002 Collected: 02/02/22 12:23 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	5.5	mg/L	1.0	0.60	1		02/08/22 05:11	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		02/08/22 05:11	16984-48-8	
Sulfate	45.3	mg/L	1.0	0.50	1		02/08/22 05:11	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-511 **Lab ID: 92585979003** Collected: 02/02/22 16:20 Received: 02/03/22 10:35 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

Performed by	CUSTOMER				1		02/03/22 13:03		
pH	5.44	Std. Units			1		02/03/22 13:03		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.046	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 16:47	7439-89-6	
Potassium	10.9	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 16:47	7440-09-7	M1
Sodium	43.3	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 16:47	7440-23-5	M1
Calcium	187	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 16:47	7440-70-2	M1
Magnesium	121	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 16:47	7439-95-4	M1
Manganese	41.9	mg/L	0.20	0.021	5	02/16/22 07:50	02/17/22 13:20	7439-96-5	M1

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/16/22 07:51	02/16/22 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:37	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 18:37	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 18:37	7440-41-7	
Boron	0.42	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 18:37	7440-42-8	
Cadmium	0.0043	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 18:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:37	7440-47-3	
Cobalt	0.023	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 18:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 18:37	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 18:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 18:37	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 10:27	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1590	mg/L	50.0	50.0	1		02/08/22 10:49		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	22.4	mg/L	5.0	1.8	1		02/10/22 16:30		
Alkalinity,Bicarbonate (CaCO3)	22.4	mg/L	5.0	1.8	1		02/10/22 16:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 16:30		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-511 Lab ID: 92585979003 Collected: 02/02/22 16:20 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	9.7	mg/L	1.0	0.60	1		02/08/22 05:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 05:25	16984-48-8	
Sulfate	889	mg/L	21.0	10.5	21		02/08/22 17:05	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-611 **Lab ID: 92585979004** Collected: 02/02/22 15:42 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		02/03/22 13:03		
pH	5.25	Std. Units			1		02/03/22 13:03		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.97	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:07	7439-89-6	
Potassium	7.4	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:07	7440-09-7	
Sodium	57.2	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:07	7440-23-5	
Calcium	215	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 17:07	7440-70-2	
Manganese	106	mg/L	0.20	0.021	5	02/16/22 07:50	02/17/22 13:34	7439-96-5	
Magnesium	173	mg/L	0.25	0.059	5	02/16/22 07:50	02/17/22 13:34	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	02/16/22 07:51	02/16/22 18:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:43	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 18:43	7440-39-3	
Beryllium	0.0015	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 18:43	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 18:43	7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 18:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 18:43	7440-47-3	
Cobalt	0.51	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 18:43	7440-48-4	M1
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 18:43	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 18:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 18:43	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 18:43	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 10:30	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1970	mg/L	100	100	1		02/08/22 10:50		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	14.4	mg/L	5.0	1.8	1		02/10/22 19:39		
Alkalinity,Bicarbonate (CaCO3)	14.4	mg/L	5.0	1.8	1		02/10/22 19:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 19:39		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-611 Lab ID: 92585979004 Collected: 02/02/22 15:42 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	19.2	mg/L	1.0	0.60	1		02/08/22 05:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 05:39	16984-48-8	
Sulfate	1230	mg/L	29.0	14.5	29		02/08/22 17:19	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: FB-2		Lab ID: 92585979005		Collected: 02/02/22 14:22	Received: 02/03/22 10:35	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	02/16/22 07:50	02/16/22 17:11	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0015J	mg/L	0.0030	0.00078	1	02/16/22 07:51	02/16/22 19:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:07	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:07	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:07	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 19:07	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:07	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:07	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:07	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:07	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 10:32	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/08/22 10:50			
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		02/08/22 05:53	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 05:53	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/08/22 05:53	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: EB-2 Lab ID: 92585979006 Collected: 02/02/22 16:18 Received: 02/03/22 10:35 Matrix: Water										
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	02/16/22 07:50	02/16/22 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	0.00078	1	02/16/22 07:51	02/16/22 19:25	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:25	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:25	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:25	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 19:25	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:25	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:25	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:25	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:25	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:25	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:25	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:25	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:25	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 10:43	7439-97-6		
2540C Total Dissolved Solids										
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA										
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/08/22 10:50			
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		02/08/22 06:07	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 06:07	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/08/22 06:07	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-58I **Lab ID: 92585979007** Collected: 02/03/22 14:13 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:11		
pH	3.90	Std. Units			1		02/07/22 10:11		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	46.6	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:35	7439-89-6	
Manganese	23.4	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 17:35	7439-96-5	
Potassium	7.7	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:35	7440-09-7	
Sodium	29.8	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:35	7440-23-5	
Calcium	120	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 17:35	7440-70-2	
Magnesium	67.0	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 17:35	7439-95-4	
Hardness, Total(SM 2340B)	575	mg/L	2.7	0.35	1	02/16/22 07:50	02/16/22 17:35		

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 21:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:34	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:34	7440-39-3	
Beryllium	0.027	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:34	7440-41-7	
Boron	0.38	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:34	7440-42-8	
Cadmium	0.0038	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:34	7440-47-3	
Cobalt	0.43	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:34	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/15/22 10:27	02/16/22 20:45	7439-92-1	D3
Lithium	0.041	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:34	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:34	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/15/22 10:27	02/16/22 20:45	7440-28-0	D3

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:00	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1170	mg/L	20.0	20.0	1		02/09/22 10:13		
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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 19:22		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 19:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 19:22		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-581 Lab ID: 92585979007 Collected: 02/03/22 14:13 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	47.3	mg/L	12.5	1.0	25		02/09/22 12:28	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	11.9	mg/L	1.0	0.60	1		02/10/22 23:50	16887-00-6	
Fluoride	1.8	mg/L	0.10	0.050	1		02/10/22 23:50	16984-48-8	
Sulfate	767	mg/L	16.0	8.0	16		02/11/22 06:38	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	0.071	mg/L	0.040	0.017	1		02/18/22 09:49		
5310B Dissolved Organic Carbon									
Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach									
Dissolved Organic Carbon	ND	mg/L	1.0	0.50	1		02/10/22 20:34		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-59I **Lab ID: 92585979008** Collected: 02/03/22 12:40 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:11		
pH	3.71	Std. Units			1		02/07/22 10:11		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	345	mg/L	0.20	0.13	5	02/16/22 07:50	02/17/22 13:39	7439-89-6	
Manganese	60.6	mg/L	0.20	0.021	5	02/16/22 07:50	02/17/22 13:39	7439-96-5	
Potassium	15.6	mg/L	1.0	0.76	5	02/16/22 07:50	02/17/22 13:39	7440-09-7	
Sodium	75.5	mg/L	5.0	2.9	5	02/16/22 07:50	02/17/22 13:39	7440-23-5	
Calcium	213	mg/L	5.0	0.61	5	02/16/22 07:50	02/17/22 13:39	7440-70-2	
Magnesium	157	mg/L	0.25	0.059	5	02/16/22 07:50	02/17/22 13:39	7439-95-4	
Hardness, Total(SM 2340B)	1180	mg/L	13.5	1.8	5	02/16/22 07:50	02/17/22 13:39		

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 21:39	7440-36-0	
Arsenic	0.017	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:39	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:39	7440-39-3	
Beryllium	0.12	mg/L	0.0025	0.00027	5	02/15/22 10:27	02/16/22 20:51	7440-41-7	
Boron	0.055J	mg/L	0.20	0.043	5	02/15/22 10:27	02/16/22 20:51	7440-42-8	D3
Cadmium	0.0060	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:39	7440-43-9	
Chromium	0.0032J	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:39	7440-47-3	
Cobalt	1.6	mg/L	0.025	0.0020	5	02/15/22 10:27	02/16/22 20:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/15/22 10:27	02/16/22 20:51	7439-92-1	D3
Lithium	0.19	mg/L	0.15	0.0036	5	02/15/22 10:27	02/16/22 20:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:39	7439-98-7	
Selenium	0.090	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:39	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/15/22 10:27	02/16/22 20:51	7440-28-0	D3

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:02	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	3610	mg/L	100	100	1		02/09/22 10:13		
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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 19:23		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 19:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 19:23		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-591 Lab ID: 92585979008 Collected: 02/03/22 12:40 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	342	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	2.6	mg/L	0.50	0.040	1		02/09/22 11:36	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 03:15	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	36.5	mg/L	1.0	0.60	1		02/11/22 01:09	16887-00-6	
Fluoride	2.7	mg/L	0.10	0.050	1		02/11/22 01:09	16984-48-8	
Sulfate	2600	mg/L	50.0	25.0	50		02/11/22 08:21	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 10:02		
5310B Dissolved Organic Carbon									
Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach									
Dissolved Organic Carbon	1.3	mg/L	1.0	0.50	1		02/10/22 20:48		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-60I **Lab ID: 92585979009** Collected: 02/03/22 10:45 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:11		
pH	4.73	Std. Units			1		02/07/22 10:11		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.34	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:44	7439-89-6	
Potassium	13.8	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:44	7440-09-7	
Sodium	59.2	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:44	7440-23-5	
Manganese	166	mg/L	0.40	0.043	10	02/16/22 07:50	02/17/22 13:43	7439-96-5	
Calcium	279	mg/L	10.0	1.2	10	02/16/22 07:50	02/17/22 13:43	7440-70-2	
Magnesium	182	mg/L	0.50	0.12	10	02/16/22 07:50	02/17/22 13:43	7439-95-4	
Hardness, Total(SM 2340B)	1450	mg/L	27.0	3.5	10	02/16/22 07:50	02/17/22 13:43		

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 21:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:45	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:45	7440-39-3	
Beryllium	0.072	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:45	7440-41-7	
Boron	0.25	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:45	7440-42-8	
Cadmium	0.016	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:45	7440-47-3	
Cobalt	3.4	mg/L	0.025	0.0020	5	02/15/22 10:27	02/15/22 21:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/15/22 10:27	02/15/22 21:51	7439-92-1	
Lithium	0.098	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:45	7439-98-7	
Selenium	0.0026J	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:45	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/15/22 10:27	02/15/22 21:51	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:05	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	2480	mg/L	100	100	1		02/09/22 10:13		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	3.2J	mg/L	5.0	1.8	1		02/10/22 14:34		
Alkalinity,Bicarbonate (CaCO3)	3.2J	mg/L	5.0	1.8	1		02/10/22 14:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:34		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-60I Lab ID: 92585979009 Collected: 02/03/22 10:45 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	0.22J	mg/L	0.50	0.040	1		02/09/22 11:31	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 03:15	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	30.7	mg/L	1.0	0.60	1		02/11/22 01:24	16887-00-6	
Fluoride	2.3	mg/L	0.10	0.050	1		02/11/22 01:24	16984-48-8	
Sulfate	2020	mg/L	37.0	18.5	37		02/11/22 07:37	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 10:03		
5310B Dissolved Organic Carbon									
Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach									
Dissolved Organic Carbon	0.57 I	mg/L	1.0	0.50	1		02/10/22 21:41		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Sample: PZ-50D	Lab ID: 92585979010	Collected: 02/03/22 10:54	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 10:12		
pH	6.24	Std. Units			1		02/07/22 10:12		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	4.8	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:49	7439-89-6	
Manganese	9.7	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 17:49	7439-96-5	
Potassium	13.3	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:49	7440-09-7	
Sodium	47.5	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:49	7440-23-5	
Calcium	222	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 17:49	7440-70-2	
Magnesium	82.6	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 17:49	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/22 07:51	02/16/22 19:31	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:31	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:31	7440-41-7	
Boron	0.22	mg/L	0.040	0.0086	1	02/16/22 07:51	02/17/22 10:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:31	7440-47-3	
Cobalt	0.10	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:31	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:31	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1380	mg/L	50.0	50.0	1		02/09/22 10:13		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	72.9	mg/L	5.0	1.8	1		02/10/22 14:42		
Alkalinity,Bicarbonate (CaCO3)	72.9	mg/L	5.0	1.8	1		02/10/22 14:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:42		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: **PZ-50D** Lab ID: **92585979010** Collected: 02/03/22 10:54 Received: 02/04/22 16:06 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	12.5	mg/L	1.0	0.60	1		02/11/22 01:39	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		02/11/22 01:39	16984-48-8	
Sulfate	903	mg/L	18.0	9.0	18		02/11/22 07:51	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-51D **Lab ID: 92585979011** Collected: 02/03/22 16:15 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:12		
pH	6.77	Std. Units			1		02/07/22 10:12		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	2.2	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:54	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 17:54	7439-96-5	
Potassium	10.7	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:54	7440-09-7	
Sodium	39.8	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:54	7440-23-5	
Calcium	122	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 17:54	7440-70-2	
Magnesium	29.8	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 17:54	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	02/16/22 07:51	02/16/22 19:36	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:36	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:36	7440-41-7	
Boron	0.034J	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 19:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:36	7439-92-1	
Lithium	0.0096J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:36	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:36	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:10	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	686	mg/L	20.0	20.0	1		02/09/22 10:13		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	133	mg/L	5.0	1.8	1		02/10/22 14:46		
Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	1.8	1		02/10/22 14:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:46		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-51D **Lab ID: 92585979011** Collected: 02/03/22 16:15 Received: 02/04/22 16:06 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	15.2	mg/L	1.0	0.60	1		02/11/22 01:54	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.050	1		02/11/22 01:54	16984-48-8	
Sulfate	339	mg/L	7.0	3.5	7		02/11/22 08:06	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-571 **Lab ID: 92585979012** Collected: 02/04/22 08:54 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 10:12		
pH	5.28	Std. Units			1		02/07/22 10:12		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	2.0	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 17:59	7439-89-6	
Manganese	17.1	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 17:59	7439-96-5	
Potassium	5.0	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 17:59	7440-09-7	
Sodium	18.4	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 17:59	7440-23-5	
Calcium	67.6	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 17:59	7440-70-2	
Magnesium	40.3	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 17:59	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	02/16/22 07:51	02/16/22 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:42	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:42	7440-39-3	
Beryllium	0.00054	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:42	7440-41-7	
Boron	0.51	mg/L	0.20	0.043	5	02/16/22 07:51	02/17/22 10:34	7440-42-8	
Cadmium	0.00072	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:42	7440-47-3	
Cobalt	0.094	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:42	7439-92-1	
Lithium	0.026J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	630	mg/L	20.0	20.0	1		02/09/22 18:02		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	13.3	mg/L	5.0	1.8	1		02/10/22 17:02		
Alkalinity,Bicarbonate (CaCO3)	13.3	mg/L	5.0	1.8	1		02/10/22 17:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 17:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-571 Lab ID: 92585979012 Collected: 02/04/22 08:54 Received: 02/04/22 16:06 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	7.2	mg/L	1.0	0.60	1		02/11/22 12:18	16887-00-6	
Fluoride	0.096J	mg/L	0.10	0.050	1		02/11/22 12:18	16984-48-8	
Sulfate	336	mg/L	8.0	4.0	8		02/11/22 23:38	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-63I **Lab ID: 92585979013** Collected: 02/04/22 10:15 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:12		
pH	5.89	Std. Units			1		02/07/22 10:12		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	2.3	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 18:04	7439-89-6	
Manganese	5.5	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 18:04	7439-96-5	
Potassium	8.9	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 18:04	7440-09-7	
Sodium	16.2	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 18:04	7440-23-5	
Calcium	42.2	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 18:04	7440-70-2	
Magnesium	29.2	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 18:04	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	02/16/22 07:51	02/16/22 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:48	7440-38-2	
Barium	0.037	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:48	7440-41-7	
Boron	0.67	mg/L	0.20	0.043	5	02/16/22 07:51	02/17/22 10:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:48	7440-47-3	
Cobalt	0.019	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:48	7439-92-1	
Lithium	0.0070J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:48	7439-93-2	
Molybdenum	0.00092J	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:48	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:16	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	403	mg/L	10.0	10.0	1		02/09/22 18:02		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	37.1	mg/L	5.0	1.8	1		02/10/22 14:54		
Alkalinity,Bicarbonate (CaCO3)	37.1	mg/L	5.0	1.8	1		02/10/22 14:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:54		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-63I **Lab ID: 92585979013** Collected: 02/04/22 10:15 Received: 02/04/22 16:06 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	6.2	mg/L	1.0	0.60	1		02/11/22 12:32	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/11/22 12:32	16984-48-8	
Sulfate	195	mg/L	5.0	2.5	5		02/11/22 23:52	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-62I **Lab ID: 92585979014** Collected: 02/04/22 10:10 Received: 02/04/22 16:06 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

Performed by	CUSTOMER				1		02/07/22 10:12		
pH	5.79	Std. Units			1		02/07/22 10:12		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	3.7	mg/L	0.040	0.025	1	02/16/22 07:50	02/16/22 18:09	7439-89-6	
Manganese	24.8	mg/L	0.040	0.0043	1	02/16/22 07:50	02/16/22 18:09	7439-96-5	
Potassium	10.9	mg/L	0.20	0.15	1	02/16/22 07:50	02/16/22 18:09	7440-09-7	
Sodium	28.7	mg/L	1.0	0.58	1	02/16/22 07:50	02/16/22 18:09	7440-23-5	
Calcium	102	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 18:09	7440-70-2	
Magnesium	54.1	mg/L	0.050	0.012	1	02/16/22 07:50	02/16/22 18:09	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	02/16/22 07:51	02/16/22 19:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:54	7440-38-2	
Barium	0.058	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 19:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 19:54	7440-41-7	
Boron	0.50	mg/L	0.20	0.043	5	02/16/22 07:51	02/17/22 10:46	7440-42-8	
Cadmium	0.00040J	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 19:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 19:54	7440-47-3	
Cobalt	0.27	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 19:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 19:54	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 19:54	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 19:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 19:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 19:54	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:18	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	818	mg/L	20.0	20.0	1		02/09/22 18:03		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	40.9	mg/L	5.0	1.8	1		02/10/22 15:04		
Alkalinity,Bicarbonate (CaCO3)	40.9	mg/L	5.0	1.8	1		02/10/22 15:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:04		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: PZ-62I Lab ID: 92585979014 Collected: 02/04/22 10:10 Received: 02/04/22 16:06 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	9.8	mg/L	1.0	0.60	1		02/11/22 12:46	16887-00-6	
Fluoride	0.071J	mg/L	0.10	0.050	1		02/11/22 12:46	16984-48-8	
Sulfate	451	mg/L	11.0	5.5	11		02/12/22 00:06	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Sample: FB-3	Lab ID: 92585979015	Collected: 02/03/22 11:10	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									
Calcium	ND	mg/L	1.0	0.12	1	02/16/22 07:50	02/16/22 18:13	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	02/16/22 07:51	02/16/22 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 20:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/22 07:51	02/16/22 20:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/22 07:51	02/16/22 20:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/16/22 07:51	02/16/22 20:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/22 07:51	02/16/22 20:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/22 07:51	02/16/22 20:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/22 07:51	02/16/22 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/22 07:51	02/16/22 20:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/22 07:51	02/16/22 20:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/22 07:51	02/16/22 20:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/22 07:51	02/16/22 20:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/22 07:51	02/16/22 20:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 11:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	14.0	mg/L	10.0	10.0	1		02/09/22 10:14		
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		02/11/22 13:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/22 13:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/22 13:00	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

QC Batch: 678472

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006, 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

METHOD BLANK: 3550626

Matrix: Water

Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006, 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/16/22 16:27	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	02/16/22 16:27	
Iron	mg/L	ND	0.040	0.025	02/16/22 16:27	
Magnesium	mg/L	ND	0.050	0.012	02/16/22 16:27	
Manganese	mg/L	ND	0.040	0.0043	02/16/22 16:27	
Potassium	mg/L	ND	0.20	0.15	02/16/22 16:27	
Sodium	mg/L	ND	1.0	0.58	02/16/22 16:27	

LABORATORY CONTROL SAMPLE: 3550627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Hardness, Total(SM 2340B)	mg/L	6.6	7.1	107	80-120	
Iron	mg/L	1	1.1	111	80-120	
Magnesium	mg/L	1	1.1	111	80-120	
Manganese	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.0	105	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550995 3550996

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585979003 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	187	1	1	192	180	509	-680	75-125	6	20	M1	
Hardness, Total(SM 2340B)	mg/L	963	6.6	6.6	987	936	369	-412	75-125	5	20		
Iron	mg/L	0.046	1	1	1.1	1.1	105	106	75-125	1	20		
Magnesium	mg/L	121	1	1	123	118	283	-250	75-125	4	20	M1	
Manganese	mg/L	41.9	1	1	44.3	42.2	231	22	75-125	5	20	M1	
Potassium	mg/L	10.9	1	1	12.2	11.5	128	56	75-125	6	20	M1	
Sodium	mg/L	43.3	1	1	45.4	42.6	206	-73	75-125	6	20	M1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009

METHOD BLANK: 3549798 Matrix: Water

Associated Lab Samples: 92585979007, 92585979008, 92585979009

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.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	113	107	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	105	99	75-125	6	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Parameter	Units	3549800		3549801		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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 DELIN PIEZO
 Pace Project No.: 92585979

QC Batch: 678476 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

METHOD BLANK: 3550650 Matrix: Water
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/22 18:13	
Arsenic	mg/L	ND	0.0050	0.0011	02/16/22 18:13	
Barium	mg/L	ND	0.0050	0.00067	02/16/22 18:13	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/22 18:13	
Boron	mg/L	ND	0.040	0.0086	02/16/22 18:13	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/22 18:13	
Chromium	mg/L	ND	0.0050	0.0011	02/16/22 18:13	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/22 18:13	
Lead	mg/L	ND	0.0010	0.00089	02/16/22 18:13	
Lithium	mg/L	ND	0.030	0.00073	02/16/22 18:13	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/22 18:13	
Selenium	mg/L	ND	0.0050	0.0014	02/16/22 18:13	
Thallium	mg/L	ND	0.0010	0.00018	02/16/22 18:13	

LABORATORY CONTROL SAMPLE: 3550651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	117	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.11	109	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: 3550652 3550653

Parameter	Units	92585979004 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	0.12	0.11	115	110	75-125	4	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Parameter	Units	3550652		3550653		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92585979004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	4	20		
Barium	mg/L	0.015	0.1	0.1	0.13	0.12	119	109	75-125	8	20		
Beryllium	mg/L	0.0015	0.1	0.1	0.098	0.095	97	94	75-125	3	20		
Boron	mg/L	0.32	1	1	1.3	1.3	98	96	75-125	1	20		
Cadmium	mg/L	0.00014J	0.1	0.1	0.096	0.098	96	98	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20		
Cobalt	mg/L	0.51	0.1	0.1	0.63	0.64	116	132	75-125	2	20	M1	
Lead	mg/L	ND	0.1	0.1	0.092	0.088	92	88	75-125	4	20		
Lithium	mg/L	0.011J	0.1	0.1	0.12	0.11	107	98	75-125	8	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	108	102	75-125	6	20		
Selenium	mg/L	0.0031J	0.1	0.1	0.12	0.11	112	105	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

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: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005

METHOD BLANK: 3548804 Matrix: Water
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005

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	92585977006		3548807		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	101	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

QC Batch: 678090 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585979006, 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

METHOD BLANK: 3548832 Matrix: Water
 Associated Lab Samples: 92585979006, 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014, 92585979015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/22 10:35	

LABORATORY CONTROL SAMPLE: 3548833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0029	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548834 3548835

Parameter	Units	92585979006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	101	98	75-125	4	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

QC Batch: 676565 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: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006

METHOD BLANK: 3541415 Matrix: Water
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/08/22 10:47	

LABORATORY CONTROL SAMPLE: 3541416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3541417

Parameter	Units	92585979001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	91.0	7	25	

SAMPLE DUPLICATE: 3541418

Parameter	Units	92586342006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	608	616	1	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979015

METHOD BLANK: 3542886 Matrix: Water

Associated Lab Samples: 92585979007, 92585979008, 92585979009, 92585979010, 92585979011, 92585979015

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 DELIN PIEZO
 Pace Project No.: 92585979

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: 92585979012, 92585979013, 92585979014

METHOD BLANK: 3542890 Matrix: Water
 Associated Lab Samples: 92585979012, 92585979013, 92585979014

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 DELIN PIEZO

Pace Project No.: 92585979

QC Batch: 798119

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585979007, 92585979008

METHOD BLANK: 4240829

Matrix: Water

Associated Lab Samples: 92585979007, 92585979008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 14:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:33	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:33	

LABORATORY CONTROL SAMPLE & LCSD: 4240830

4240831

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	40.3	39.9	101	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240832

4240833

Parameter	Units	92585727002 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	2.8J	40	40	43.8	43.8	102	103	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240834

4240835

Parameter	Units	10596422001 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	29.9	40	40	69.2	69.5	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

QC Batch: 798120 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014

METHOD BLANK: 4240836 Matrix: Water
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979009, 92585979010, 92585979011, 92585979012, 92585979013, 92585979014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Carbonate (CaCO3)	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 CaCO3	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 CaCO3	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 CaCO3	mg/L	16.2	40	40	58.1	58.3	105	105	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009

METHOD BLANK: 3543126 Matrix: Water
 Associated Lab Samples: 92585979007, 92585979008, 92585979009

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 DELIN PIEZO
 Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009

METHOD BLANK: 3542979 Matrix: Water
 Associated Lab Samples: 92585979007, 92585979008, 92585979009

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		3542982		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
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		3542984		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
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 DELIN PIEZO

Pace Project No.: 92585979

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: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006

METHOD BLANK: 3541375 Matrix: Water
 Associated Lab Samples: 92585979001, 92585979002, 92585979003, 92585979004, 92585979005, 92585979006

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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009, 92585979010, 92585979011

METHOD BLANK: 3544578 Matrix: Water
 Associated Lab Samples: 92585979007, 92585979008, 92585979009, 92585979010, 92585979011

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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586778001	Result	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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585920032	Result	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 DELIN PIEZO

Pace Project No.: 92585979

QC Batch: 677497 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: 92585979012, 92585979013, 92585979014, 92585979015

METHOD BLANK: 3545965 Matrix: Water
 Associated Lab Samples: 92585979012, 92585979013, 92585979014, 92585979015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/11/22 07:04	
Fluoride	mg/L	ND	0.10	0.050	02/11/22 07:04	
Sulfate	mg/L	ND	1.0	0.50	02/11/22 07:04	

LABORATORY CONTROL SAMPLE: 3545966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3545967 3545968

Parameter	Units	92587247021		3545967		3545968		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	53.3	50	50	90.2	88.9	74	71	90-110	1	10	M1	
Fluoride	mg/L	0.41	2.5	2.5	3.1	3.1	106	106	90-110	0	10		
Sulfate	mg/L	95.9	50	50	140	139	89	86	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3545969 3545970

Parameter	Units	92587247031		3545969		3545970		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	73.8	50	50	106	107	65	67	90-110	1	10	M1	
Fluoride	mg/L	1.1	2.5	2.5	3.7	3.8	106	108	90-110	2	10		
Sulfate	mg/L	141	50	50	179	180	77	79	90-110	1	10	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009

METHOD BLANK: 3552861 Matrix: Water
 Associated Lab Samples: 92585979007, 92585979008, 92585979009

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	3552863		3552864		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92585013023 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	3552865		3552866		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92585013024 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 DELIN PIEZO
 Pace Project No.: 92585979

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: 92585979007, 92585979008, 92585979009

METHOD BLANK: 4387547 Matrix: Water
 Associated Lab Samples: 92585979007, 92585979008, 92585979009

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 Spike Conc.					
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 Spike Conc.					
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 DELIN PIEZO
Pace Project No.: 92585979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H3 Sample was received or analysis requested beyond the recognized method holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585979001	PZ-51S				
92585979002	PZ-44				
92585979003	PZ-51I				
92585979004	PZ-61I				
92585979007	PZ-58I				
92585979008	PZ-59I				
92585979009	PZ-60I				
92585979010	PZ-50D				
92585979011	PZ-51D				
92585979012	PZ-57I				
92585979013	PZ-63I				
92585979014	PZ-62I				
92585979001	PZ-51S	EPA 3010A	678472	EPA 6010D	678669
92585979002	PZ-44	EPA 3010A	678472	EPA 6010D	678669
92585979003	PZ-51I	EPA 3010A	678472	EPA 6010D	678669
92585979004	PZ-61I	EPA 3010A	678472	EPA 6010D	678669
92585979005	FB-2	EPA 3010A	678472	EPA 6010D	678669
92585979006	EB-2	EPA 3010A	678472	EPA 6010D	678669
92585979007	PZ-58I	EPA 3010A	678472	EPA 6010D	678669
92585979008	PZ-59I	EPA 3010A	678472	EPA 6010D	678669
92585979009	PZ-60I	EPA 3010A	678472	EPA 6010D	678669
92585979010	PZ-50D	EPA 3010A	678472	EPA 6010D	678669
92585979011	PZ-51D	EPA 3010A	678472	EPA 6010D	678669
92585979012	PZ-57I	EPA 3010A	678472	EPA 6010D	678669
92585979013	PZ-63I	EPA 3010A	678472	EPA 6010D	678669
92585979014	PZ-62I	EPA 3010A	678472	EPA 6010D	678669
92585979015	FB-3	EPA 3010A	678472	EPA 6010D	678669
92585979001	PZ-51S	EPA 3005A	678476	EPA 6020B	678683
92585979002	PZ-44	EPA 3005A	678476	EPA 6020B	678683
92585979003	PZ-51I	EPA 3005A	678476	EPA 6020B	678683
92585979004	PZ-61I	EPA 3005A	678476	EPA 6020B	678683
92585979005	FB-2	EPA 3005A	678476	EPA 6020B	678683
92585979006	EB-2	EPA 3005A	678476	EPA 6020B	678683
92585979007	PZ-58I	EPA 3005A	678313	EPA 6020B	678442
92585979008	PZ-59I	EPA 3005A	678313	EPA 6020B	678442
92585979009	PZ-60I	EPA 3005A	678313	EPA 6020B	678442
92585979010	PZ-50D	EPA 3005A	678476	EPA 6020B	678683
92585979011	PZ-51D	EPA 3005A	678476	EPA 6020B	678683
92585979012	PZ-57I	EPA 3005A	678476	EPA 6020B	678683
92585979013	PZ-63I	EPA 3005A	678476	EPA 6020B	678683
92585979014	PZ-62I	EPA 3005A	678476	EPA 6020B	678683
92585979015	FB-3	EPA 3005A	678476	EPA 6020B	678683
92585979001	PZ-51S	EPA 7470A	678089	EPA 7470A	678299
92585979002	PZ-44	EPA 7470A	678089	EPA 7470A	678299
92585979003	PZ-51I	EPA 7470A	678089	EPA 7470A	678299
92585979004	PZ-61I	EPA 7470A	678089	EPA 7470A	678299

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92585979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585979005	FB-2	EPA 7470A	678089	EPA 7470A	678299
92585979006	EB-2	EPA 7470A	678090	EPA 7470A	678300
92585979007	PZ-58I	EPA 7470A	678090	EPA 7470A	678300
92585979008	PZ-59I	EPA 7470A	678090	EPA 7470A	678300
92585979009	PZ-60I	EPA 7470A	678090	EPA 7470A	678300
92585979010	PZ-50D	EPA 7470A	678090	EPA 7470A	678300
92585979011	PZ-51D	EPA 7470A	678090	EPA 7470A	678300
92585979012	PZ-57I	EPA 7470A	678090	EPA 7470A	678300
92585979013	PZ-63I	EPA 7470A	678090	EPA 7470A	678300
92585979014	PZ-62I	EPA 7470A	678090	EPA 7470A	678300
92585979015	FB-3	EPA 7470A	678090	EPA 7470A	678300
92585979001	PZ-51S	SM 2540C-2015	676565		
92585979002	PZ-44	SM 2540C-2015	676565		
92585979003	PZ-51I	SM 2540C-2015	676565		
92585979004	PZ-61I	SM 2540C-2015	676565		
92585979005	FB-2	SM 2540C-2015	676565		
92585979006	EB-2	SM 2540C-2015	676565		
92585979007	PZ-58I	SM 2540C-2015	676886		
92585979008	PZ-59I	SM 2540C-2015	676886		
92585979009	PZ-60I	SM 2540C-2015	676886		
92585979010	PZ-50D	SM 2540C-2015	676886		
92585979011	PZ-51D	SM 2540C-2015	676886		
92585979012	PZ-57I	SM 2540C-2015	676887		
92585979013	PZ-63I	SM 2540C-2015	676887		
92585979014	PZ-62I	SM 2540C-2015	676887		
92585979015	FB-3	SM 2540C-2015	676886		
92585979001	PZ-51S	SM 2320B	798120		
92585979002	PZ-44	SM 2320B	798120		
92585979003	PZ-51I	SM 2320B	798120		
92585979004	PZ-61I	SM 2320B	798120		
92585979007	PZ-58I	SM 2320B	798119		
92585979008	PZ-59I	SM 2320B	798119		
92585979009	PZ-60I	SM 2320B	798120		
92585979010	PZ-50D	SM 2320B	798120		
92585979011	PZ-51D	SM 2320B	798120		
92585979012	PZ-57I	SM 2320B	798120		
92585979013	PZ-63I	SM 2320B	798120		
92585979014	PZ-62I	SM 2320B	798120		
92585979007	PZ-58I	SM 3500-Fe D#4	679361		
92585979008	PZ-59I	SM 3500-Fe D#4	679361		
92585979009	PZ-60I	SM 3500-Fe D#4	679361		
92585979007	PZ-58I	SM 3500-Fe B-2011	676994		
92585979008	PZ-59I	SM 3500-Fe B-2011	676994		
92585979009	PZ-60I	SM 3500-Fe B-2011	676994		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92585979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585979007	PZ-58I	SM 4500-S2D-2011	676918		
92585979008	PZ-59I	SM 4500-S2D-2011	676918		
92585979009	PZ-60I	SM 4500-S2D-2011	676918		
92585979001	PZ-51S	EPA 300.0 Rev 2.1 1993	676560		
92585979002	PZ-44	EPA 300.0 Rev 2.1 1993	676560		
92585979003	PZ-51I	EPA 300.0 Rev 2.1 1993	676560		
92585979004	PZ-61I	EPA 300.0 Rev 2.1 1993	676560		
92585979005	FB-2	EPA 300.0 Rev 2.1 1993	676560		
92585979006	EB-2	EPA 300.0 Rev 2.1 1993	676560		
92585979007	PZ-58I	EPA 300.0 Rev 2.1 1993	677218		
92585979008	PZ-59I	EPA 300.0 Rev 2.1 1993	677218		
92585979009	PZ-60I	EPA 300.0 Rev 2.1 1993	677218		
92585979010	PZ-50D	EPA 300.0 Rev 2.1 1993	677218		
92585979011	PZ-51D	EPA 300.0 Rev 2.1 1993	677218		
92585979012	PZ-57I	EPA 300.0 Rev 2.1 1993	677497		
92585979013	PZ-63I	EPA 300.0 Rev 2.1 1993	677497		
92585979014	PZ-62I	EPA 300.0 Rev 2.1 1993	677497		
92585979015	FB-3	EPA 300.0 Rev 2.1 1993	677497		
92585979007	PZ-58I	EPA 353.2 Rev 2.0 1993	678945		
92585979008	PZ-59I	EPA 353.2 Rev 2.0 1993	678945		
92585979009	PZ-60I	EPA 353.2 Rev 2.0 1993	678945		
92585979007	PZ-58I	SM 5310B	799039		
92585979008	PZ-59I	SM 5310B	799039		
92585979009	PZ-60I	SM 5310B	799039		

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Document Name
Sample Collection User Manual (SCUM)
Document No
4-CAAC-03-033-Rev.01

Document Release November 15, 2021
Page 2 of 2
Issuing Authority
Data Collection Quality Office

Laboratory receiving samples:

Athens Eden Greenwood Huntsville Raleigh Mayhewville Atlanta Bannockburn

Sample Collection Laboratory

(Long Name)

Project

WO#: 92585979



Cooper Field Core LSP Other Commercial Pass

Cooper Seal Present? Yes No Seal Intact? Yes No

Seal/Label Present (during transport) Yes No

Fielding Material Study Only Study Bag Other Other

Biological Preservation Yes No

Temperature: Ambient Cold Dry Ice Other None

Cooler Temp 1 2 3 4 5 6 7 8 9 10

Temp should be above freezing (0+°C)
 Sample not at temp. at a temperature no longer present
Full report

Cooler Temp Correlated (°C):

WO#s Regulated (0-6) Yes No

Collection is made in a facility located within the United States (CA, HI, or DC) (check one)
 Yes No

Get samples and info from a foreign source by mail/air
freight (check one) (check one) Yes No
Country/Company

Open at Collection Point?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Sample stored in other cold temp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	2
Freeze Hold Time Analyzed (20 min)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> NA	3
High Temp/Normal Temp Regulated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	4
Self-seal bagging?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	5
Correct for time of day?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	6
Other Contaminants?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	7
Contaminants?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	8
Cooper Seal and Sample for Transport?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	9
Sample, Study Material (SC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	10

Includes Dewar for (0-6) (check one) Yes No

Temperature WO#s and (0-6) (check one) Yes No NA

High and Cooper Seal Present Yes No NA

Comments/Remarks (use back)

Field/transport Yes No

Client ref: 1001001001001001

WO# 92585979

Phone contact: _____ Date/Tax: _____

Project manager: Michael Decker Date: _____

Project Manager: Jill Brown Date: _____



Document Name
 Sample Condition: Open-Berated (SCLM)
 Government Job
 3-24-2013 10:30 AM

Document Revision: November 15, 2012
 Page 2 of 2
 Issuing Authority
 Field Location: Quality Control

Laboratory receiving samples:

Ashburn Eden Greenwood Huntersville Raleigh Weddonsville Atlanta Kernersville

Project Name
 No. 4-11-11

Client Name

Project #

WO#: 92585979

Country Commercial Public Home Other

PR: WFO Due Date: 02/17/12
 CLIENT: GA-08 Power

Delivery Seal Present? Yes No Seal Present? Yes No

Date for Laboratory Receiving Control: 01/17/12

Packing Material: Bubble Wrap Bubble Bag None Other
 Insulated? Yes No Type of Ins: Styro Other None

Biological Tissue Form? Yes No N/A

Cooler Temp: 2-8 -20 Other: Add/Specify (C):

Temp should be above freezing (10°C)
 Samples out of temp until samples are in cooling process
 N/A

Cooler Temp (corrected C)
 USDA Regulated Soil? Yes (water sample)

Do samples require a special container? (The usual things: CA, BA, or SC are OK)
 Yes No

Do samples require a special container (regardless of whether it is the usual thing)?
 Yes No
 Comments: (if any)

Client of Choice Request?	Yes	No	Days
Shipping Address with a Road Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Short Name/Title Analysis (AKA W/P)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2
Each Tube Requires Tube Requisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4
Software Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Label/Container Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Field Container Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Emergency Kit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Shipping Address/Shipping Form/Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Sample Labels/Matrix CD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2

Inventory Question/Analysis: Yes No

Prepares a full report? Yes No
 Includes Materials? Yes No

Top level Summary Table Request? Yes No

Delivery to same recipient

Time Data Request? Yes No

Client to provide material source

Lot # of each container

Person contacted: Yes No

Project Manager: Jeff Bevels

Date: _____

Project Manager: Jeff Bevels

Date: _____

2

CHAIN-OF-CUSTODY (Analytical Request Document)
To be used for analytical request ONLY AT ALL STAGES (Sample and Laboratory use)

Project #

Request #

Requester's Name
Requester's Title
Requester's Organization
Requester's Address
Requester's Phone Number
Requester's Fax Number
Requester's E-mail

Sample Location
Sample ID
Sample Description
Sample Quantity
Sample Date
Sample Time

Requester's Signature
Requester's Date
Requester's Title
Requester's Organization
Requester's Address
Requester's Phone Number
Requester's Fax Number
Requester's E-mail

Request Date
Request Time
Request Status

Page 1 of 1

Item #	Item Name	Quantity	Unit	Requester's Signature	Requester's Date	Requester's Title	Requester's Organization	Requester's Address	Requester's Phone Number	Requester's Fax Number	Requester's E-mail	Analysis Test			
												Method	Operator	Date	Time
1	Sample 1	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
2	Sample 2	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
3	Sample 3	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
4	Sample 4	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
5	Sample 5	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
6	Sample 6	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
7	Sample 7	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
8	Sample 8	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
9	Sample 9	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
10	Sample 10	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
11	Sample 11	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
12	Sample 12	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
13	Sample 13	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
14	Sample 14	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
15	Sample 15	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
16	Sample 16	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
17	Sample 17	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
18	Sample 18	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
19	Sample 19	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]
20	Sample 20	1	g									Method: GC-MS	Operator: [blank]	Date: [blank]	Time: [blank]

Spec - Sample 1 - Initial Test - [blank]

Sample Handover Date / Time 2/4/22



March 04, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD RAD
Pace Project No.: 92585970

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 - Greensburg

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

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CERTIFICATIONS

Project: BRANCH AP-BCD RAD
Pace Project No.: 92585970

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585970001	BRGWC-25I	Water	02/02/22 14:44	02/03/22 10:35
92585970002	BRGWC-30I	Water	02/02/22 12:30	02/03/22 10:35
92585970003	BRGWC-32S	Water	02/02/22 14:55	02/03/22 10:35
92585970004	BRGWC-45	Water	02/02/22 10:42	02/03/22 10:35
92585970005	BRGWC-47	Water	02/02/22 09:40	02/03/22 10:35
92585970006	BRGWC-52I	Water	02/02/22 13:34	02/03/22 10:35
92585970007	DUP-2	Water	02/02/22 00:00	02/03/22 10:35
92585970008	BRGWC-50	Water	02/03/22 11:48	02/04/22 16:06
92585970009	BRGWC-27I	Water	02/04/22 08:50	02/04/22 16:06
92585970010	BRGWC-29I	Water	02/03/22 17:00	02/04/22 16:06
92585970011	DUP-3	Water	02/03/22 00:00	02/04/22 16:06

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD RAD
Pace Project No.: 92585970

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585970001	BRGWC-25I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970002	BRGWC-30I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970003	BRGWC-32S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970004	BRGWC-45	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970005	BRGWC-47	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970006	BRGWC-52I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970007	DUP-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970008	BRGWC-50	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970009	BRGWC-27I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585970010	BRGWC-29I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
92585970011	DUP-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970001	BRGWC-25I					
EPA 9315	Radium-226	0.213 ± 0.163 (0.284) C:87% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.427 ± 0.394 (0.804) C:75% T:83%	pCi/L		02/21/22 12:17	
92585970002	BRGWC-30I					
EPA 9315	Radium-226	0.237 ± 0.156 (0.238) C:95% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.974 ± 0.564 (1.05) C:77% T:95%	pCi/L		02/21/22 15:39	
92585970003	BRGWC-32S					
EPA 9315	Radium-226	0.0831 ± 0.107 (0.220) C:95% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	-0.0566 ± 0.633 (1.49) C:53% T:89%	pCi/L		02/21/22 15:39	
92585970004	BRGWC-45					
EPA 9315	Radium-226	0.0922 ± 0.115 (0.231) C:85% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.127 ± 0.474 (1.07) C:76% T:87%	pCi/L		02/21/22 15:39	
92585970005	BRGWC-47					
EPA 9315	Radium-226	0.227 ± 0.165 (0.264) C:77% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	-0.0821 ± 0.506 (1.19) C:76% T:81%	pCi/L		02/21/22 15:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970006	BRGWC-521					
EPA 9315	Radium-226	0.440 ± 0.223 (0.318)	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	C:85% T:NA 1.89 ± 0.793 (1.29)	pCi/L		02/21/22 15:40	
		C:77% T:75%				
92585970007	DUP-2					
EPA 9315	Radium-226	0.252 ± 0.164 (0.252)	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	C:94% T:NA -0.118 ± 0.474 (1.12)	pCi/L		02/21/22 15:40	
		C:76% T:91%				
92585970008	BRGWC-50					
EPA 9315	Radium-226	0.262 ± 0.161 (0.243)	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	C:92% T:NA 0.883 ± 0.422 (0.722)	pCi/L		02/21/22 15:40	
		C:76% T:90%				
92585970009	BRGWC-271					
EPA 9315	Radium-226	0.209 ± 0.164 (0.282)	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	C:79% T:NA 0.126 ± 0.377 (0.845)	pCi/L		02/21/22 15:40	
		C:79% T:83%				
92585970010	BRGWC-291					
EPA 9315	Radium-226	0.244 ± 0.144 (0.202)	pCi/L		02/23/22 11:02	
EPA 9320	Radium-228	C:94% T:NA 0.554 ± 0.398 (0.776)	pCi/L		02/21/22 15:42	
		C:78% T:88%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970011	DUP-3					
EPA 9315	Radium-226	0.204 ± 0.155 (0.275) C:88% T:NA	pCi/L		02/23/22 11:02	
EPA 9320	Radium-228	0.661 ± 0.401 (0.747) C:75% T:90%	pCi/L		02/21/22 15:42	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-25I Lab ID: 92585970001 Collected: 02/02/22 14:44 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.213 ± 0.163 (0.284) C:87% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.427 ± 0.394 (0.804) C:75% T:83%	pCi/L	02/21/22 12:17	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-301 Lab ID: 92585970002 Collected: 02/02/22 12:30 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.237 ± 0.156 (0.238) C:95% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.974 ± 0.564 (1.05) C:77% T:95%	pCi/L	02/21/22 15:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-32S Lab ID: 92585970003 Collected: 02/02/22 14:55 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0831 ± 0.107 (0.220) C:95% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0566 ± 0.633 (1.49) C:53% T:89%	pCi/L	02/21/22 15:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-45 Lab ID: 92585970004 Collected: 02/02/22 10:42 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0922 ± 0.115 (0.231) C:85% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.127 ± 0.474 (1.07) C:76% T:87%	pCi/L	02/21/22 15:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Sample: BRGWC-47 **Lab ID: 92585970005** Collected: 02/02/22 09:40 Received: 02/03/22 10:35 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	0.227 ± 0.165 (0.264) C:77% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0821 ± 0.506 (1.19) C:76% T:81%	pCi/L	02/21/22 15:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-52I Lab ID: 92585970006 Collected: 02/02/22 13:34 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.440 ± 0.223 (0.318) C:85% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.89 ± 0.793 (1.29) C:77% T:75%	pCi/L	02/21/22 15:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Sample: DUP-2 **Lab ID: 92585970007** Collected: 02/02/22 00:00 Received: 02/03/22 10:35 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	0.252 ± 0.164 (0.252) C:94% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.118 ± 0.474 (1.12) C:76% T:91%	pCi/L	02/21/22 15:40	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Sample: BRGWC-50 **Lab ID: 92585970008** Collected: 02/03/22 11:48 Received: 02/04/22 16:06 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	0.262 ± 0.161 (0.243) C:92% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.883 ± 0.422 (0.722) C:76% T:90%	pCi/L	02/21/22 15:40	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-271 Lab ID: 92585970009 Collected: 02/04/22 08:50 Received: 02/04/22 16:06 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.209 ± 0.164 (0.282) C:79% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.126 ± 0.377 (0.845) C:79% T:83%	pCi/L	02/21/22 15:40	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Sample: BRGWC-29I **Lab ID: 92585970010** Collected: 02/03/22 17:00 Received: 02/04/22 16:06 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	0.244 ± 0.144 (0.202) C:94% T:NA	pCi/L	02/23/22 11:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.554 ± 0.398 (0.776) C:78% T:88%	pCi/L	02/21/22 15:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

Sample: DUP-3 **Lab ID: 92585970011** Collected: 02/03/22 00:00 Received: 02/04/22 16:06 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	0.204 ± 0.155 (0.275) C:88% T:NA	pCi/L	02/23/22 11:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.661 ± 0.401 (0.747) C:75% T:90%	pCi/L	02/21/22 15:42	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD
 Pace Project No.: 92585970

QC Batch:	484157	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

METHOD BLANK: 2341231 Matrix: Water

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.145 ± 0.280 (0.615) C:77% T:93%	pCi/L	02/21/22 12:17	

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 AP-BCD RAD

Pace Project No.: 92585970

QC Batch: 484277

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970010, 92585970011

METHOD BLANK: 2341866

Matrix: Water

Associated Lab Samples: 92585970010, 92585970011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.156 ± 0.117 (0.185) C:98% T:NA	pCi/L	02/23/22 11:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD

Pace Project No.: 92585970

QC Batch: 484158

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970010, 92585970011

METHOD BLANK: 2341232

Matrix: Water

Associated Lab Samples: 92585970010, 92585970011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.144 ± 0.303 (0.671) C:74% T:90%	pCi/L	02/21/22 15:42	

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 AP-BCD RAD
 Pace Project No.: 92585970

QC Batch:	484274	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

METHOD BLANK: 2341862 Matrix: Water

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00607 ± 0.0684 (0.194) C:102% T:NA	pCi/L	02/23/22 09:00	

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 AP-BCD RAD

Pace Project No.: 92585970

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD RAD
Pace Project No.: 92585970

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585970001	BRGWC-25I	EPA 9315	484274		
92585970002	BRGWC-30I	EPA 9315	484274		
92585970003	BRGWC-32S	EPA 9315	484274		
92585970004	BRGWC-45	EPA 9315	484274		
92585970005	BRGWC-47	EPA 9315	484274		
92585970006	BRGWC-52I	EPA 9315	484274		
92585970007	DUP-2	EPA 9315	484274		
92585970008	BRGWC-50	EPA 9315	484274		
92585970009	BRGWC-27I	EPA 9315	484274		
92585970010	BRGWC-29I	EPA 9315	484277		
92585970011	DUP-3	EPA 9315	484277		
92585970001	BRGWC-25I	EPA 9320	484157		
92585970002	BRGWC-30I	EPA 9320	484157		
92585970003	BRGWC-32S	EPA 9320	484157		
92585970004	BRGWC-45	EPA 9320	484157		
92585970005	BRGWC-47	EPA 9320	484157		
92585970006	BRGWC-52I	EPA 9320	484157		
92585970007	DUP-2	EPA 9320	484157		
92585970008	BRGWC-50	EPA 9320	484157		
92585970009	BRGWC-27I	EPA 9320	484157		
92585970010	BRGWC-29I	EPA 9320	484158		
92585970011	DUP-3	EPA 9320	484158		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2011
Page 1 of 2

Document No:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
Georgia Power

Project #: **WO# : 92585970**



Courier: Commercial Fed Ex UPS Other Client

Custody Seal Present? Yes No Seal Intact? Yes No

Date/Initials Person Examining Contents: CPD 2/13/10

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: #1 Gun ID: 214 Type of Ice: Dry Blue None

Cooler Temp: 26 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): 26.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, HI, or DC (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>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 SCUR Review: _____ Date: _____

Project Manager DR Review: _____ Date: _____



Document Name:
 Bottle Identification Form (BIF)
 Document No.:
 F-CAR-CS-043-Rev.01

Document Issued: November 15, 2021
 Page 1 of 1
 Issuing Authority:
 Face Carolina's 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, DRD/RO15 (water) DOC, UTMg
 **Bottom half of box is to list number of bottles

Project # **WO# : 92585970**
 PR: NRC Due Date: 02/24/22
 CLIENT: GR-GR Power

Matrix	Brand	Material	1	2	3	4	5	6	7	8	9	10	11	12
	BP40-125 ml, Plastic Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
	BP40-250 ml, Plastic Unpreserved (N/A)		3	2	1	1	1	1	1	1	1	1	1	1
	BP40-500 ml, Plastic Unpreserved (N/A)		2	2	1	1	1	1	1	1	1	1	1	1
	BP40-1 liter Plastic Unpreserved (N/A)													
	BP40-125 ml, Plastic HDPE (pH = 1) (C-1)													
	BP40-250 ml, Plastic HDPE (pH = 2)													
	BP40-125 ml, Plastic 26 Acetate & NacOAc (pH)													
	BP40-125 ml, Plastic NaOH (pH = 12) (C-1)													
	WQ40 Wide-mouthed Glass Jar Unpreserved													
	AG11-1 liter Amber Unpreserved (N/A) (C-1)													
	AG11-1 liter Amber HD (pH = 2)													
	AG11-250 ml, Amber Unpreserved (N/A) (C-1)													
	AG11-1 liter Amber HDPE (pH = 2)													
	AG11-250 ml, Amber HDPE (pH = 2)													
	AG11-500ml-750 ml, Amber HDPE (N/A)(C-1)													
	DO40-40 ml, VOA HD (N/A)													
	VQ40-40 ml, VOA HDPE (N/A)													
	VQ40-40 ml, VOA Unpreserved (N/A)													
	EO40-40 ml, VOA HDPE (N/A)													
	VO40 (3 vials per kit)-5025 kit (N/A)													
	VQ40 (3 vials per kit)-VH-40 kit (N/A)													
	SP40-125 ml, Sterile Plastic (N/A - lab)													
	SP40-250 ml, Sterile Plastic (N/A - lab)													
	BP40-250 ml, Plastic (N/A)(C-1) (3-8-7)													
	AG40-500 ml, Amber Unpreserved vials (N/A)													
	VQ40-40 ml, Scintillation vials (N/A)													
	DO40-40 ml, Amber Unpreserved vials (N/A)													

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 DEWNR 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 requests must be completed accurately.

Page: 1 of 1

Section A: Requester Information
 Requester Name: [Blank] Requester Title: [Blank]
 Requester Organization: [Blank] Requester Address: [Blank]
 Requester Phone: [Blank] Requester Email: [Blank]

Section B: Analytical Request Information
 Analytical Request Number: [Blank] Request Date: [Blank]
 Request Location: [Blank] Requester Signature: [Blank]

Section C: Sample Information
 Sample ID: [Blank] Sample Description: [Blank]
 Sample Quantity: [Blank] Sample Source: [Blank]

ITEM #	SAMPLE ID	ANALYTICAL METHOD	DATE	TIME	ANALYSIS TESTS						REMARKS (If any)
					GC	MS	GC/MS	GC/MS/MS	GC/MS/MS/MS	GC/MS/MS/MS/MS	
1	000001-01	GC/MS	11/11/11	14:00							GC/MS
2	000001-02	GC/MS	11/11/11	14:00							GC/MS
3	000001-03	GC/MS	11/11/11	14:00							GC/MS
4	000001-04	GC/MS	11/11/11	14:00							GC/MS
5	000001-05	GC/MS	11/11/11	14:00							GC/MS
6	000001-06	GC/MS	11/11/11	14:00							GC/MS
7	000001-07	GC/MS	11/11/11	14:00							GC/MS
8	000001-08	GC/MS	11/11/11	14:00							GC/MS
9	000001-09	GC/MS	11/11/11	14:00							GC/MS
10	000001-10	GC/MS	11/11/11	14:00							GC/MS
11	000001-11	GC/MS	11/11/11	14:00							GC/MS
12	000001-12	GC/MS	11/11/11	14:00							GC/MS

Section D: Signatures and Dates

Requester Signature: [Blank] Date: [Blank]

Analyst Signature: [Blank] Date: [Blank]

Supervisor Signature: [Blank] Date: [Blank]

Witness Signature: [Blank] Date: [Blank]

Received on: [Blank] at: [Blank]
 [Blank] [Blank]
 [Blank] [Blank]
 [Blank] [Blank]

Quality Control Sample Performance Assessment

Quality Control Sample

Quality Control Sample

Date: 04/20/20
 Analyst: J. [Name]
 Sample ID: 65248
 Method: [Method]

Parameter	Target Value	Observed Value
Parameter 1	1000	1000
Parameter 2	1000	1000
Parameter 3	1000	1000
Parameter 4	1000	1000
Parameter 5	1000	1000
Parameter 6	1000	1000
Parameter 7	1000	1000
Parameter 8	1000	1000
Parameter 9	1000	1000
Parameter 10	1000	1000
Parameter 11	1000	1000
Parameter 12	1000	1000
Parameter 13	1000	1000
Parameter 14	1000	1000
Parameter 15	1000	1000
Parameter 16	1000	1000
Parameter 17	1000	1000
Parameter 18	1000	1000
Parameter 19	1000	1000
Parameter 20	1000	1000
Parameter 21	1000	1000
Parameter 22	1000	1000
Parameter 23	1000	1000
Parameter 24	1000	1000
Parameter 25	1000	1000
Parameter 26	1000	1000
Parameter 27	1000	1000
Parameter 28	1000	1000
Parameter 29	1000	1000
Parameter 30	1000	1000
Parameter 31	1000	1000
Parameter 32	1000	1000
Parameter 33	1000	1000
Parameter 34	1000	1000
Parameter 35	1000	1000
Parameter 36	1000	1000
Parameter 37	1000	1000
Parameter 38	1000	1000
Parameter 39	1000	1000
Parameter 40	1000	1000
Parameter 41	1000	1000
Parameter 42	1000	1000
Parameter 43	1000	1000
Parameter 44	1000	1000
Parameter 45	1000	1000
Parameter 46	1000	1000
Parameter 47	1000	1000
Parameter 48	1000	1000
Parameter 49	1000	1000
Parameter 50	1000	1000

Parameter	Target Value	Observed Value	Control Limit
Parameter 1	1000	1000	1000
Parameter 2	1000	1000	1000
Parameter 3	1000	1000	1000
Parameter 4	1000	1000	1000
Parameter 5	1000	1000	1000
Parameter 6	1000	1000	1000
Parameter 7	1000	1000	1000
Parameter 8	1000	1000	1000
Parameter 9	1000	1000	1000
Parameter 10	1000	1000	1000
Parameter 11	1000	1000	1000
Parameter 12	1000	1000	1000
Parameter 13	1000	1000	1000
Parameter 14	1000	1000	1000
Parameter 15	1000	1000	1000
Parameter 16	1000	1000	1000
Parameter 17	1000	1000	1000
Parameter 18	1000	1000	1000
Parameter 19	1000	1000	1000
Parameter 20	1000	1000	1000
Parameter 21	1000	1000	1000
Parameter 22	1000	1000	1000
Parameter 23	1000	1000	1000
Parameter 24	1000	1000	1000
Parameter 25	1000	1000	1000
Parameter 26	1000	1000	1000
Parameter 27	1000	1000	1000
Parameter 28	1000	1000	1000
Parameter 29	1000	1000	1000
Parameter 30	1000	1000	1000
Parameter 31	1000	1000	1000
Parameter 32	1000	1000	1000
Parameter 33	1000	1000	1000
Parameter 34	1000	1000	1000
Parameter 35	1000	1000	1000
Parameter 36	1000	1000	1000
Parameter 37	1000	1000	1000
Parameter 38	1000	1000	1000
Parameter 39	1000	1000	1000
Parameter 40	1000	1000	1000
Parameter 41	1000	1000	1000
Parameter 42	1000	1000	1000
Parameter 43	1000	1000	1000
Parameter 44	1000	1000	1000
Parameter 45	1000	1000	1000
Parameter 46	1000	1000	1000
Parameter 47	1000	1000	1000
Parameter 48	1000	1000	1000
Parameter 49	1000	1000	1000
Parameter 50	1000	1000	1000

04/20/20

Quality Control Sample Performance Assessment

11-11-2010

11-11-2010 10:00 AM

11-11-2010
10:00 AM

11-11-2010
10:00 AM

11-11-2010
10:00 AM

11-11-2010
10:00 AM

11-11-2010
10:00 AM

11-11-2010
10:00 AM

11-11-2010

11-11-2010

Quality Control Sample Performance Assessment

Copy of this document is to be attached to the report.

Page 1 of 1

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results
1	Sample 1	Water	Well 1	10/10/2014	10:00 AM	Pass	100%
2	Sample 2	Water	Well 2	10/10/2014	10:05 AM	Pass	100%
3	Sample 3	Water	Well 3	10/10/2014	10:10 AM	Pass	100%
4	Sample 4	Water	Well 4	10/10/2014	10:15 AM	Pass	100%
5	Sample 5	Water	Well 5	10/10/2014	10:20 AM	Pass	100%
6	Sample 6	Water	Well 6	10/10/2014	10:25 AM	Pass	100%
7	Sample 7	Water	Well 7	10/10/2014	10:30 AM	Pass	100%
8	Sample 8	Water	Well 8	10/10/2014	10:35 AM	Pass	100%
9	Sample 9	Water	Well 9	10/10/2014	10:40 AM	Pass	100%
10	Sample 10	Water	Well 10	10/10/2014	10:45 AM	Pass	100%

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results
11	Sample 11	Water	Well 11	10/10/2014	10:50 AM	Pass	100%
12	Sample 12	Water	Well 12	10/10/2014	10:55 AM	Pass	100%
13	Sample 13	Water	Well 13	10/10/2014	11:00 AM	Pass	100%
14	Sample 14	Water	Well 14	10/10/2014	11:05 AM	Pass	100%
15	Sample 15	Water	Well 15	10/10/2014	11:10 AM	Pass	100%
16	Sample 16	Water	Well 16	10/10/2014	11:15 AM	Pass	100%
17	Sample 17	Water	Well 17	10/10/2014	11:20 AM	Pass	100%
18	Sample 18	Water	Well 18	10/10/2014	11:25 AM	Pass	100%
19	Sample 19	Water	Well 19	10/10/2014	11:30 AM	Pass	100%
20	Sample 20	Water	Well 20	10/10/2014	11:35 AM	Pass	100%

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results
21	Sample 21	Water	Well 21	10/10/2014	11:40 AM	Pass	100%
22	Sample 22	Water	Well 22	10/10/2014	11:45 AM	Pass	100%
23	Sample 23	Water	Well 23	10/10/2014	11:50 AM	Pass	100%
24	Sample 24	Water	Well 24	10/10/2014	11:55 AM	Pass	100%
25	Sample 25	Water	Well 25	10/10/2014	12:00 PM	Pass	100%
26	Sample 26	Water	Well 26	10/10/2014	12:05 PM	Pass	100%
27	Sample 27	Water	Well 27	10/10/2014	12:10 PM	Pass	100%
28	Sample 28	Water	Well 28	10/10/2014	12:15 PM	Pass	100%
29	Sample 29	Water	Well 29	10/10/2014	12:20 PM	Pass	100%
30	Sample 30	Water	Well 30	10/10/2014	12:25 PM	Pass	100%

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results
31	Sample 31	Water	Well 31	10/10/2014	12:30 PM	Pass	100%
32	Sample 32	Water	Well 32	10/10/2014	12:35 PM	Pass	100%
33	Sample 33	Water	Well 33	10/10/2014	12:40 PM	Pass	100%
34	Sample 34	Water	Well 34	10/10/2014	12:45 PM	Pass	100%
35	Sample 35	Water	Well 35	10/10/2014	12:50 PM	Pass	100%
36	Sample 36	Water	Well 36	10/10/2014	12:55 PM	Pass	100%
37	Sample 37	Water	Well 37	10/10/2014	1:00 PM	Pass	100%
38	Sample 38	Water	Well 38	10/10/2014	1:05 PM	Pass	100%
39	Sample 39	Water	Well 39	10/10/2014	1:10 PM	Pass	100%
40	Sample 40	Water	Well 40	10/10/2014	1:15 PM	Pass	100%

Summary

Overall performance is excellent.

Quality Control Sample Performance Assessment

PERFORMANCE

Date: 11/11/11
 Analyst: [Name]
 Station: [Name]
 Shift: [Name]

Parameter	Target	Actual	Pass/Fail
Lead	100	100	Pass
Cadmium	100	100	Pass
Chromium	100	100	Pass
Copper	100	100	Pass
Iron	100	100	Pass
Manganese	100	100	Pass
Nickel	100	100	Pass
Silver	100	100	Pass
Zinc	100	100	Pass

Parameter	Target	Actual	Pass/Fail
Lead	100	100	Pass
Cadmium	100	100	Pass
Chromium	100	100	Pass
Copper	100	100	Pass
Iron	100	100	Pass
Manganese	100	100	Pass
Nickel	100	100	Pass
Silver	100	100	Pass
Zinc	100	100	Pass

Parameter	Target	Actual	Pass/Fail
Lead	100	100	Pass
Cadmium	100	100	Pass
Chromium	100	100	Pass
Copper	100	100	Pass
Iron	100	100	Pass
Manganese	100	100	Pass
Nickel	100	100	Pass
Silver	100	100	Pass
Zinc	100	100	Pass

Analytical Method: EPA 8210-A (Lead, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Silver, Zinc)
 Sample Date: 11/11/11
 Sample Location: [Name]

Parameter	Target	Actual	Pass/Fail
Lead	100	100	Pass
Cadmium	100	100	Pass
Chromium	100	100	Pass
Copper	100	100	Pass
Iron	100	100	Pass
Manganese	100	100	Pass
Nickel	100	100	Pass
Silver	100	100	Pass
Zinc	100	100	Pass

Parameter	Target	Actual	Pass/Fail
Lead	100	100	Pass
Cadmium	100	100	Pass
Chromium	100	100	Pass
Copper	100	100	Pass
Iron	100	100	Pass
Manganese	100	100	Pass
Nickel	100	100	Pass
Silver	100	100	Pass
Zinc	100	100	Pass

Comments: All parameters are within target range. No significant deviations observed.

[Signature]
 [Name]

[Signature]
 [Name]



March 04, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD/E BACKGROUND RAD
Pace Project No.: 92585708

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 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 - Greensburg

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

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CERTIFICATIONS

Project: BRANCH AP-BCD/E BACKGROUND RAD
Pace Project No.: 92585708

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD/E BACKGROUND RAD
Pace Project No.: 92585708

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585708001	BRGWA-2S	Water	02/01/22 14:55	02/02/22 10:25
92585708002	BRGWA-2I	Water	02/01/22 13:15	02/02/22 10:25
92585708003	BRGWA-5S	Water	02/01/22 09:40	02/02/22 10:25
92585708004	BRGWA-5I	Water	02/01/22 11:15	02/02/22 10:25
92585708005	BRGWA-6S	Water	02/01/22 09:45	02/02/22 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585708001	BRGWA-2S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585708002	BRGWA-2I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585708003	BRGWA-5S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585708004	BRGWA-5I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585708005	BRGWA-6S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585708001	BRGWA-2S					
EPA 9315	Radium-226	0.0397 ± 0.0836 (0.196) C:100% T:NA	pCi/L		02/22/22 10:55	
EPA 9320	Radium-228	0.211 ± 0.309 (0.664) C:76% T:94%	pCi/L		02/17/22 16:18	
Total Radium Calculation	Total Radium	0.251 ± 0.393 (0.860)	pCi/L		02/22/22 17:04	
92585708002	BRGWA-2I					
EPA 9315	Radium-226	0.0812 ± 0.0907 (0.173) C:92% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.152 ± 0.392 (0.873) C:73% T:86%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	0.233 ± 0.483 (1.05)	pCi/L		02/22/22 17:04	
92585708003	BRGWA-5S					
EPA 9315	Radium-226	0.0708 ± 0.179 (0.431) C:99% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.159 ± 0.371 (0.823) C:77% T:93%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	0.230 ± 0.550 (1.25)	pCi/L		02/22/22 17:04	
92585708004	BRGWA-5I					
EPA 9315	Radium-226	1.03 ± 0.289 (0.194) C:97% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.198 ± 0.319 (0.692) C:77% T:87%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	1.23 ± 0.608 (0.886)	pCi/L		02/22/22 17:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585708005	BRGWA-6S					
EPA 9315	Radium-226	0.0249 ± 0.0724 (0.180) C:97% T:NA	pCi/L		02/22/22 12:23	
EPA 9320	Radium-228	0.324 ± 0.336 (0.691) C:76% T:83%	pCi/L		02/17/22 16:19	
Total Radium Calculation	Total Radium	0.349 ± 0.408 (0.871)	pCi/L		02/22/22 17:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-2S Lab ID: 92585708001 Collected: 02/01/22 14:55 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0397 ± 0.0836 (0.196) C:100% T:NA	pCi/L	02/22/22 10:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.211 ± 0.309 (0.664) C:76% T:94%	pCi/L	02/17/22 16:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.251 ± 0.393 (0.860)	pCi/L	02/22/22 17:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-2I Lab ID: 92585708002 Collected: 02/01/22 13:15 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0812 ± 0.0907 (0.173) C:92% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.152 ± 0.392 (0.873) C:73% T:86%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.233 ± 0.483 (1.05)	pCi/L	02/22/22 17:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-5S Lab ID: 92585708003 Collected: 02/01/22 09:40 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0708 ± 0.179 (0.431) C:99% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.159 ± 0.371 (0.823) C:77% T:93%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.230 ± 0.550 (1.25)	pCi/L	02/22/22 17:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-5I Lab ID: 92585708004 Collected: 02/01/22 11:15 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.03 ± 0.289 (0.194) C:97% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.198 ± 0.319 (0.692) C:77% T:87%	pCi/L	02/17/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.608 (0.886)	pCi/L	02/22/22 17:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-6S Lab ID: 92585708005 Collected: 02/01/22 09:45 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0249 ± 0.0724 (0.180) C:97% T:NA	pCi/L	02/22/22 12:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.324 ± 0.336 (0.691) C:76% T:83%	pCi/L	02/17/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.349 ± 0.408 (0.871)	pCi/L	02/22/22 17:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

QC Batch:	482652	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585708001, 92585708002, 92585708003, 92585708004, 92585708005

METHOD BLANK: 2332806 Matrix: Water

Associated Lab Samples: 92585708001, 92585708002, 92585708003, 92585708004, 92585708005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.173 ± 0.305 (0.667) C:77% T:85%	pCi/L	02/17/22 12:45	

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 AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

QC Batch:	482985	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585708001, 92585708002, 92585708003, 92585708004, 92585708005

METHOD BLANK: 2335102 Matrix: Water

Associated Lab Samples: 92585708001, 92585708002, 92585708003, 92585708004, 92585708005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0320 ± 0.0849 (0.207) C:96% T:NA	pCi/L	02/22/22 10:50	

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: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD/E BACKGROUND RAD

Pace Project No.: 92585708

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585708001	BRGWA-2S	EPA 9315	482985		
92585708002	BRGWA-2I	EPA 9315	482985		
92585708003	BRGWA-5S	EPA 9315	482985		
92585708004	BRGWA-5I	EPA 9315	482985		
92585708005	BRGWA-6S	EPA 9315	482985		
92585708001	BRGWA-2S	EPA 9320	482652		
92585708002	BRGWA-2I	EPA 9320	482652		
92585708003	BRGWA-5S	EPA 9320	482652		
92585708004	BRGWA-5I	EPA 9320	482652		
92585708005	BRGWA-6S	EPA 9320	482652		
92585708001	BRGWA-2S	Total Radium Calculation	485742		
92585708002	BRGWA-2I	Total Radium Calculation	485742		
92585708003	BRGWA-5S	Total Radium Calculation	485742		
92585708004	BRGWA-5I	Total Radium Calculation	485742		
92585708005	BRGWA-6S	Total Radium Calculation	485742		

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 #: **W0# : 92585708**

Carrier: Fed Ex UPS USPS Client Other _____
 Commercial Pace



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Contents: 01/2-2-22

Packing Material: Bubble Wrap Bubble Bag None Other

Biological Tissue Frozen?

Thermometer: IR Gun: 230 Type of Ice: Dry Ice Other None

Yes No N/A

Cooler Temp: 1.6 Correction Factor: 0.2
Add/Subtract (C/F) 0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States, CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

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 with in 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.
Decolved 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>			
Prep space 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 1000 containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CI-043-Rev.01

Document Issued: November 15, 2021
Page 1 of 1
Issuing Authority:
Face Carolina Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VDA, Calcium, TOC, Oil and Grease, DRB/B015 (water) DOC, UHg

**Bottom half of box is to list number of bottles

Project #

WO#: 92585708

PR: NRG

Due Date: 02/23/22

CLIENT: CR-CR Power

Matrix	Bottle	BP01-125 ml, Plastic Unpreserved (N/A) (D-1)	BP01-250 ml, Plastic Unpreserved (N/A)	BP01-500 ml, Plastic Unpreserved (N/A)	BP01-1 liter Plastic Unpreserved (N/A)	BP01-125 ml, Plastic HClO4 (pH < 2) (D-1)	BP01-250 ml, Plastic HClO4 (pH < 2)	BP01-125 ml, Plastic 2N Acetic & HAcOH (pH)	BP01-250 ml, Plastic HAcOH (pH > 12) (D-1)	W000 Wide-mouthed Glass Jar Unpreserved	AG100-1 liter Amber Unpreserved (N/A) (D-1)	AG100-1 liter Amber HCl (pH < 2)	AG100-250 ml, Amber Unpreserved (N/A) (D-1)	AG100-1 liter Amber HClO4 (pH < 2)	AG100-250 ml, Amber HClO4 (pH < 2)	AG100(200ml)-250 ml, Amber HClO4 (pH<2)	DC001-40 ml, VOA HCl (N/A)	V001-40 ml, VOA HClO4 (N/A)	V001-40 ml, VOA Unpreserved (N/A)	DC001-40 ml, VOA HClO4 (N/A)	V001-125 vials per kit-5015 In (N/A)	V001-125 vials per kit-5005 In (N/A)	BP01-125 ml, Sterile Plastic (N/A - lab)	BP01-250 ml, Sterile Plastic (N/A - lab)	BP01-250 ml, Plastic (Per-01504 (P-3-5-7))	AG001-100 ml, Amber Unpreserved vials (N/A)	V001-10 ml, Stabilization vials (N/A)	DC001-40 ml, Amber Unpreserved vials (N/A)		
	1	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	2	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	3	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	4	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	5	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DPHM Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers)

Handwritten signature

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a legal document. All relevant facts must be reported accurately.

Page: 1 of 1

Section 1: Requester Chain Information
 Agency: City of Denver
 Requester Name: John Doe
 Requester Title: Police Officer
 Requester Phone: 303-555-1234
 Requester Email: john.doe@denvergov.org

Section 2: Requested Project Information
 Project ID: 2022-001
 Case #/Case Name: 19-CR-00123
 Requested By: John Doe
 Requested Date: 02/01/22

Section 3: Requester Information
 Name: John Doe
 Title: Police Officer
 Agency: Denver Police
 Address: 1234 Main St, Denver, CO 80202
 Phone: 303-555-1234
 Email: john.doe@denvergov.org

Section 4: Requested Analysis Request
 Analysis Type: GC/MS
 Analysis Method: GC/MS
 Analysis Location: GC/MS
 Analysis Date: 02/01/22

ITEM #	Description	Quantity	Unit	Date/Time	Location	Requester		Requester Agency		Requester Address		Requester Phone		Requester Email	
						Name	Title	Name	Title	Address	City	State	Zip	Phone	Mobile	Email	Alt Email
1	SAMPLE ID	1	gallon	02/01/22	GC/MS	John Doe	Police Officer	Denver Police	Police Officer	1234 Main St	Denver	CO	80202	303-555-1234	john.doe@denvergov.org
2
3
4
5
6
7
8
9
10
11
12

Handwritten notes:
 Sample ID: 8-22
 Requester: ERIC CROOK
 Date: 2/1/22
 Location: GC/MS

Handwritten notes:
 Date: 2/1/22
 Requester: ERIC CROOK
 Date: 2/1/22

Quality Control Sample Performance Assessment

Project Number: 15-00000000000000000000

Project Name: [Redacted] - [Redacted]

Sample ID: [Redacted]
 Date: [Redacted]
 Location: [Redacted]

Project Number: 15-00000000000000000000

Parameter	Value	Unit
Moisture	10.5	%
Temperature	25.0	°C
pH	7.2	
Conductivity	150	µS/cm
Chloride	10	mg/L
Sulfate	5	mg/L
Calcium	2	mg/L
Magnesium	1	mg/L
Total Hardness	18	mg/L

Parameter	Value	Unit
Ammonia Nitrogen	0.5	mg/L
Nitrite Nitrogen	0.1	mg/L
Nitrate Nitrogen	1.2	mg/L
Total Nitrogen	1.8	mg/L
Total Phosphorus	0.3	mg/L
Orthophosphate	0.1	mg/L
Ammonium	0.2	mg/L
Calcium	10	mg/L
Magnesium	5	mg/L
Total Hardness	15	mg/L

Parameter	Value	Unit
Chloride	10	mg/L
Sulfate	5	mg/L
Calcium	2	mg/L
Magnesium	1	mg/L
Total Hardness	18	mg/L

1. The sample was collected from the [Redacted] location on [Redacted] at [Redacted] time. The sample was immediately placed in a clean, sealed container and transported to the laboratory for analysis.

2. The sample was analyzed for [Redacted] parameters using [Redacted] methods. The results are as follows:

3. The results indicate that the sample is [Redacted] and meets the [Redacted] requirements for [Redacted].

4. The sample was analyzed for [Redacted] parameters using [Redacted] methods. The results are as follows:

5. The results indicate that the sample is [Redacted] and meets the [Redacted] requirements for [Redacted].

[Handwritten Signature]

12/22/2015

Quality Control Sample Performance Assessment

Date: _____
 Location: _____
 Operator: _____

Test: _____
 Method: _____
 Instrument: _____

Sample ID: _____
 Sample Description: _____

Parameter	Target Value	Observed Value	Acceptance Criteria
1. Accuracy	± 2%	± 1.5%	± 2%
2. Precision	± 1%	± 0.8%	± 1%
3. Sensitivity	± 0.5%	± 0.4%	± 0.5%
4. Specificity	± 0.2%	± 0.1%	± 0.2%
5. Linearity	± 0.1%	± 0.05%	± 0.1%

Parameter	Target Value	Observed Value	Acceptance Criteria
6. Reproducibility	± 1%	± 0.9%	± 1%
7. Stability	± 0.5%	± 0.4%	± 0.5%
8. Robustness	± 0.2%	± 0.1%	± 0.2%
9. Reliability	± 0.1%	± 0.05%	± 0.1%
10. Compliance	± 0.05%	± 0.02%	± 0.05%

Parameter	Target Value	Observed Value	Acceptance Criteria
11. Accuracy	± 2%	± 1.8%	± 2%
12. Precision	± 1%	± 0.9%	± 1%
13. Sensitivity	± 0.5%	± 0.4%	± 0.5%
14. Specificity	± 0.2%	± 0.1%	± 0.2%
15. Linearity	± 0.1%	± 0.05%	± 0.1%

Parameter	Target Value	Observed Value	Acceptance Criteria
16. Reproducibility	± 1%	± 0.9%	± 1%
17. Stability	± 0.5%	± 0.4%	± 0.5%
18. Robustness	± 0.2%	± 0.1%	± 0.2%
19. Reliability	± 0.1%	± 0.05%	± 0.1%
20. Compliance	± 0.05%	± 0.02%	± 0.05%

Parameter	Target Value	Observed Value	Acceptance Criteria
21. Accuracy	± 2%	± 1.8%	± 2%
22. Precision	± 1%	± 0.9%	± 1%
23. Sensitivity	± 0.5%	± 0.4%	± 0.5%
24. Specificity	± 0.2%	± 0.1%	± 0.2%
25. Linearity	± 0.1%	± 0.05%	± 0.1%

Parameter	Target Value	Observed Value	Acceptance Criteria
26. Reproducibility	± 1%	± 0.9%	± 1%
27. Stability	± 0.5%	± 0.4%	± 0.5%
28. Robustness	± 0.2%	± 0.1%	± 0.2%
29. Reliability	± 0.1%	± 0.05%	± 0.1%
30. Compliance	± 0.05%	± 0.02%	± 0.05%

Parameter	Target Value	Observed Value	Acceptance Criteria
31. Accuracy	± 2%	± 1.8%	± 2%
32. Precision	± 1%	± 0.9%	± 1%
33. Sensitivity	± 0.5%	± 0.4%	± 0.5%
34. Specificity	± 0.2%	± 0.1%	± 0.2%
35. Linearity	± 0.1%	± 0.05%	± 0.1%

Overall Assessment: _____
 Comments: _____

Signature: _____

Date: _____
 Location: _____

Quality Control Sample Performance Assessment

Practice Test #2

Apply all state methods to the data with high precision analysis.

Lab 06: Quality Control
 Date: / /
 Student Name: _____
 Lab Section: _____

<p>Method Name: _____ Method Description: _____</p>	<p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p> <p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>	<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>
<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>	<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>	<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>
<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>	<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>	<p>Method Name: _____ Method Description: _____</p> <p>Name of Sample: _____ Sample Description: _____</p> <p>Location: _____ Date: _____ Time: _____</p> <p>Method: _____</p> <p>Method Description: _____</p>

Method Name: _____ Date: / /

Signature

Date: / /

Date: / /

Quality Control Sample Performance Assessment

Page 1 of 1

Analysis of Sample Performance Assessment

Analysis Date: 10/10/2014
Analysis Time: 10:10:10 AM

Sample ID	10101010
Sample Name	10101010
Sample Location	10101010
Sample Date	10/10/2014
Sample Time	10:10:10 AM
Sample Operator	10101010
Sample Status	10101010

Sample Name	10101010	10101010
Sample Location	10101010	10101010
Sample Date	10/10/2014	10/10/2014
Sample Time	10:10:10 AM	10:10:10 AM
Sample Operator	10101010	10101010
Sample Status	10101010	10101010

Sample Name	10101010	10101010
Sample Location	10101010	10101010
Sample Date	10/10/2014	10/10/2014
Sample Time	10:10:10 AM	10:10:10 AM
Sample Operator	10101010	10101010
Sample Status	10101010	10101010

Sample Name	10101010	10101010
Sample Location	10101010	10101010
Sample Date	10/10/2014	10/10/2014
Sample Time	10:10:10 AM	10:10:10 AM
Sample Operator	10101010	10101010
Sample Status	10101010	10101010

Sample Name	10101010	10101010
Sample Location	10101010	10101010
Sample Date	10/10/2014	10/10/2014
Sample Time	10:10:10 AM	10:10:10 AM
Sample Operator	10101010	10101010
Sample Status	10101010	10101010

Analysis of Sample Performance Assessment

Page 1 of 1

10/10/2014 10:10:10 AM



February 15, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD/E BACKGROUND
Pace Project No.: 92585717

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 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

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

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CERTIFICATIONS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

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 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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-BCD/E BACKGROUND
Pace Project No.: 92585717

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585717001	BRGWA-2S	Water	02/01/22 14:55	02/02/22 10:25
92585717002	BRGWA-2I	Water	02/01/22 13:15	02/02/22 10:25
92585717003	BRGWA-5S	Water	02/01/22 09:40	02/02/22 10:25
92585717004	BRGWA-5I	Water	02/01/22 11:15	02/02/22 10:25
92585717005	BRGWA-6S	Water	02/01/22 09:45	02/02/22 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585717001	BRGWA-2S	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585717002	BRGWA-2I	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585717003	BRGWA-5S	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585717004	BRGWA-5I	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
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585717005	BRGWA-6S	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
		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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585717001	BRGWA-2S					
	Performed by	CUSTOMER			02/02/22 14:24	
	pH	5.95	Std. Units		02/02/22 14:24	
EPA 6010D	Iron	0.13	mg/L	0.040	02/13/22 17:39	
EPA 6010D	Manganese	0.052	mg/L	0.040	02/13/22 17:39	
EPA 6010D	Potassium	0.29	mg/L	0.20	02/13/22 17:39	
EPA 6010D	Sodium	3.1	mg/L	1.0	02/13/22 17:39	
EPA 6010D	Calcium	4.4	mg/L	1.0	02/13/22 17:39	
EPA 6010D	Magnesium	4.0	mg/L	0.050	02/13/22 17:39	
EPA 6020B	Barium	0.010	mg/L	0.0050	02/14/22 18:51	
EPA 6020B	Chromium	0.0092	mg/L	0.0050	02/14/22 18:51	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/14/22 18:51	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/07/22 15:08	
SM 2320B	Alkalinity, Total as CaCO3	30.1	mg/L	5.0	02/03/22 23:10	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	30.1	mg/L	5.0	02/03/22 23:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/07/22 10:41	
92585717002	BRGWA-2I					
	Performed by	CUSTOMER			02/02/22 14:24	
	pH	6.83	Std. Units		02/02/22 14:24	
EPA 6010D	Iron	0.21	mg/L	0.040	02/13/22 17:59	
EPA 6010D	Manganese	0.021J	mg/L	0.040	02/13/22 17:59	
EPA 6010D	Potassium	5.9	mg/L	0.20	02/13/22 17:59	
EPA 6010D	Sodium	5.5	mg/L	1.0	02/13/22 17:59	
EPA 6010D	Calcium	14.4	mg/L	1.0	02/13/22 17:59	
EPA 6010D	Magnesium	7.4	mg/L	0.050	02/13/22 17:59	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	02/14/22 18:57	
EPA 6020B	Barium	0.0066	mg/L	0.0050	02/14/22 18:57	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/14/22 18:57	
EPA 6020B	Cobalt	0.00079J	mg/L	0.0050	02/14/22 18:57	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/14/22 18:57	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/14/22 18:57	
SM 2540C-2015	Total Dissolved Solids	126	mg/L	10.0	02/07/22 15:08	
SM 2320B	Alkalinity, Total as CaCO3	72.3	mg/L	5.0	02/09/22 15:55	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	72.3	mg/L	5.0	02/09/22 15:55	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	02/07/22 10:56	
EPA 300.0 Rev 2.1 1993	Sulfate	5.4	mg/L	1.0	02/07/22 10:56	
92585717003	BRGWA-5S					
	Performed by	CUSTOMER			02/02/22 14:24	
	pH	6.39	Std. Units		02/02/22 14:24	
EPA 6010D	Iron	0.30	mg/L	0.040	02/13/22 18:03	
EPA 6010D	Manganese	0.021J	mg/L	0.040	02/13/22 18:03	
EPA 6010D	Potassium	0.40	mg/L	0.20	02/13/22 18:03	
EPA 6010D	Sodium	4.1	mg/L	1.0	02/13/22 18:03	
EPA 6010D	Calcium	19.1	mg/L	1.0	02/13/22 18:03	
EPA 6010D	Magnesium	7.4	mg/L	0.050	02/13/22 18:03	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585717003	BRGWA-5S					
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	02/14/22 19:03	
EPA 6020B	Barium	0.040	mg/L	0.0050	02/14/22 19:03	
EPA 6020B	Chromium	0.0052	mg/L	0.0050	02/14/22 19:03	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	10.0	02/07/22 15:08	
SM 2320B	Alkalinity, Total as CaCO3	77.5	mg/L	5.0	02/09/22 15:59	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	77.5	mg/L	5.0	02/09/22 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	02/07/22 11:26	
92585717004	BRGWA-5I					
	Performed by	CUSTOME			02/02/22 14:24	
		R				
	pH	6.38	Std. Units		02/02/22 14:24	
EPA 6010D	Potassium	0.89	mg/L	0.20	02/13/22 18:18	
EPA 6010D	Sodium	4.7	mg/L	1.0	02/13/22 18:18	
EPA 6010D	Calcium	14.5	mg/L	1.0	02/13/22 18:18	
EPA 6010D	Magnesium	9.2	mg/L	0.050	02/13/22 18:18	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	02/14/22 19:09	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/14/22 19:09	
EPA 6020B	Chromium	0.0066	mg/L	0.0050	02/14/22 19:09	
EPA 6020B	Cobalt	0.00070J	mg/L	0.0050	02/14/22 19:09	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/14/22 19:09	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	02/14/22 19:09	
SM 2540C-2015	Total Dissolved Solids	129	mg/L	10.0	02/07/22 15:09	
SM 2320B	Alkalinity, Total as CaCO3	75.0	mg/L	5.0	02/09/22 16:04	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	75.0	mg/L	5.0	02/09/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/07/22 12:41	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	02/07/22 12:41	
92585717005	BRGWA-6S					
	Performed by	CUSTOME			02/02/22 14:24	
		R				
	pH	6.54	Std. Units		02/02/22 14:24	
EPA 6010D	Iron	0.23	mg/L	0.040	02/13/22 18:23	
EPA 6010D	Manganese	0.0082J	mg/L	0.040	02/13/22 18:23	
EPA 6010D	Potassium	0.75	mg/L	0.20	02/13/22 18:23	
EPA 6010D	Sodium	2.5	mg/L	1.0	02/13/22 18:23	
EPA 6010D	Calcium	4.2	mg/L	1.0	02/13/22 18:23	
EPA 6010D	Magnesium	3.7	mg/L	0.050	02/13/22 18:23	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/14/22 19:15	
EPA 6020B	Chromium	0.015	mg/L	0.0050	02/14/22 19:15	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/14/22 19:15	
SM 2540C-2015	Total Dissolved Solids	61.0	mg/L	10.0	02/07/22 15:09	
SM 2320B	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/09/22 16:08	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	02/09/22 16:08	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/07/22 12:56	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND
 Pace Project No.: 92585717

Sample: BRGWA-2S	Lab ID: 92585717001	Collected: 02/01/22 14:55	Received: 02/02/22 10:25	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		02/02/22 14:24		
pH	5.95	Std. Units			1		02/02/22 14:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.13	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 17:39	7439-89-6	
Manganese	0.052	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 17:39	7439-96-5	
Potassium	0.29	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 17:39	7440-09-7	
Sodium	3.1	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 17:39	7440-23-5	
Calcium	4.4	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 17:39	7440-70-2	
Magnesium	4.0	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 17:39	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	02/11/22 10:29	02/14/22 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 18:51	7440-38-2	
Barium	0.010	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 18:51	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 18:51	7440-43-9	
Chromium	0.0092	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 18:51	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 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	0.00013	1	02/09/22 11:00	02/09/22 15:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	72.0	mg/L	10.0	10.0	1		02/07/22 15:08		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	30.1	mg/L	5.0	1.8	1		02/03/22 23:10		
Alkalinity,Bicarbonate (CaCO3)	30.1	mg/L	5.0	1.8	1		02/03/22 23:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 23:10		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-2S **Lab ID: 92585717001** Collected: 02/01/22 14:55 Received: 02/02/22 10:25 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	1.6	mg/L	1.0	0.60	1		02/07/22 10:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 10:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 10:41	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-2I **Lab ID: 92585717002** Collected: 02/01/22 13:15 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:24		
pH	6.83	Std. Units			1		02/02/22 14:24		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.21	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 17:59	7439-89-6	
Manganese	0.021J	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 17:59	7439-96-5	
Potassium	5.9	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 17:59	7440-09-7	
Sodium	5.5	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 17:59	7440-23-5	
Calcium	14.4	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 17:59	7440-70-2	
Magnesium	7.4	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 17:59	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	02/11/22 10:29	02/14/22 18:57	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 18:57	7440-38-2	
Barium	0.0066	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 18:57	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 18:57	7440-47-3	
Cobalt	0.00079J	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 18:57	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 18:57	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 18:57	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	0.00013	1	02/09/22 11:00	02/09/22 15:54	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	126	mg/L	10.0	10.0	1		02/07/22 15:08		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	72.3	mg/L	5.0	1.8	1		02/09/22 15:55		
Alkalinity,Bicarbonate (CaCO3)	72.3	mg/L	5.0	1.8	1		02/09/22 15:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 15:55		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-2I **Lab ID: 92585717002** Collected: 02/01/22 13:15 Received: 02/02/22 10:25 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	1.8	mg/L	1.0	0.60	1		02/07/22 10:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 10:56	16984-48-8	
Sulfate	5.4	mg/L	1.0	0.50	1		02/07/22 10:56	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-5S **Lab ID: 92585717003** Collected: 02/01/22 09:40 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:24		
pH	6.39	Std. Units			1		02/02/22 14:24		

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	02/12/22 08:57	02/13/22 18:03	7439-89-6	
Manganese	0.021J	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:03	7439-96-5	
Potassium	0.40	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:03	7440-09-7	
Sodium	4.1	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:03	7440-23-5	
Calcium	19.1	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:03	7440-70-2	
Magnesium	7.4	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:03	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	02/11/22 10:29	02/14/22 19:03	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:03	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:03	7440-43-9	
Chromium	0.0052	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:03	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	02/09/22 11:00	02/09/22 15:56	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	124	mg/L	10.0	10.0	1		02/07/22 15:08		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	77.5	mg/L	5.0	1.8	1		02/09/22 15:59		
Alkalinity,Bicarbonate (CaCO3)	77.5	mg/L	5.0	1.8	1		02/09/22 15:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 15:59		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-5S **Lab ID: 92585717003** Collected: 02/01/22 09:40 Received: 02/02/22 10:25 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	3.4	mg/L	1.0	0.60	1		02/07/22 11:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 11:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 11:26	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-5I **Lab ID: 92585717004** Collected: 02/01/22 11:15 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:24		
pH	6.38	Std. Units			1		02/02/22 14:24		

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	02/12/22 08:57	02/13/22 18:18	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:18	7439-96-5	
Potassium	0.89	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:18	7440-09-7	
Sodium	4.7	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:18	7440-23-5	
Calcium	14.5	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:18	7440-70-2	
Magnesium	9.2	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:18	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/11/22 10:29	02/14/22 19:09	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:09	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:09	7440-43-9	
Chromium	0.0066	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:09	7440-47-3	
Cobalt	0.00070J	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:09	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:09	7439-93-2	
Molybdenum	0.0020J	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:09	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	02/09/22 11:00	02/09/22 15:59	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	129	mg/L	10.0	10.0	1		02/07/22 15:09		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	75.0	mg/L	5.0	1.8	1		02/09/22 16:04		
Alkalinity,Bicarbonate (CaCO3)	75.0	mg/L	5.0	1.8	1		02/09/22 16:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 16:04		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: BRGWA-5I **Lab ID: 92585717004** Collected: 02/01/22 11:15 Received: 02/02/22 10:25 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	3.5	mg/L	1.0	0.60	1		02/07/22 12:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 12:41	16984-48-8	
Sulfate	2.0	mg/L	1.0	0.50	1		02/07/22 12:41	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND
 Pace Project No.: 92585717

Sample: BRGWA-6S	Lab ID: 92585717005	Collected: 02/01/22 09:45	Received: 02/02/22 10:25	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		02/02/22 14:24		
pH	6.54	Std. Units			1		02/02/22 14:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.23	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 18:23	7439-89-6	
Manganese	0.0082J	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:23	7439-96-5	
Potassium	0.75	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:23	7440-09-7	
Sodium	2.5	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:23	7440-23-5	
Calcium	4.2	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:23	7440-70-2	
Magnesium	3.7	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:23	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	02/11/22 10:29	02/14/22 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:15	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/11/22 10:29	02/14/22 19:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/11/22 10:29	02/14/22 19:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/11/22 10:29	02/14/22 19:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/11/22 10:29	02/14/22 19:15	7440-43-9	
Chromium	0.015	mg/L	0.0050	0.0011	1	02/11/22 10:29	02/14/22 19:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/11/22 10:29	02/14/22 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/11/22 10:29	02/14/22 19:15	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	02/11/22 10:29	02/14/22 19:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/11/22 10:29	02/14/22 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/11/22 10:29	02/14/22 19:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/11/22 10:29	02/14/22 19:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	61.0	mg/L	10.0	10.0	1		02/07/22 15:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	27.6	mg/L	5.0	1.8	1		02/09/22 16:08		
Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	1.8	1		02/09/22 16:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 16:08		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Sample: **BRGWA-6S** Lab ID: **92585717005** Collected: 02/01/22 09:45 Received: 02/02/22 10:25 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	2.1	mg/L	1.0	0.60	1		02/07/22 12:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 12:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 12:56	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

QC Batch:	677807	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 3547708 Matrix: Water
 Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/13/22 17:30	
Iron	mg/L	ND	0.040	0.025	02/13/22 17:30	
Magnesium	mg/L	ND	0.050	0.012	02/13/22 17:30	
Manganese	mg/L	ND	0.040	0.0043	02/13/22 17:30	
Potassium	mg/L	ND	0.20	0.15	02/13/22 17:30	
Sodium	mg/L	ND	1.0	0.58	02/13/22 17:30	

LABORATORY CONTROL SAMPLE: 3547709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.95	95	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3547710 3547711

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585717001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	4.4	1	1	5.3	5.3	94	88	75-125	1	20
Iron	mg/L	0.13	1	1	1.1	1.1	102	98	75-125	3	20
Magnesium	mg/L	4.0	1	1	5.0	4.8	100	87	75-125	3	20
Manganese	mg/L	0.052	1	1	1.1	1.0	102	99	75-125	3	20
Potassium	mg/L	0.29	1	1	1.4	1.4	109	110	75-125	1	20
Sodium	mg/L	3.1	1	1	4.1	4.1	104	99	75-125	1	20

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

QC Batch:	677647	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 3546468 Matrix: Water

Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00078J	0.0030	0.00078	02/14/22 14:43	
Arsenic	mg/L	ND	0.0050	0.0011	02/14/22 14:43	
Barium	mg/L	ND	0.0050	0.00067	02/14/22 14:43	
Beryllium	mg/L	ND	0.00050	0.000054	02/14/22 14:43	
Boron	mg/L	ND	0.040	0.0086	02/14/22 14:43	
Cadmium	mg/L	ND	0.00050	0.00011	02/14/22 14:43	
Chromium	mg/L	ND	0.0050	0.0011	02/14/22 14:43	
Cobalt	mg/L	ND	0.0050	0.00039	02/14/22 14:43	
Lead	mg/L	ND	0.0010	0.00089	02/14/22 14:43	
Lithium	mg/L	ND	0.030	0.00073	02/14/22 14:43	
Molybdenum	mg/L	ND	0.010	0.00074	02/14/22 14:43	
Selenium	mg/L	ND	0.0050	0.0014	02/14/22 14:43	
Thallium	mg/L	ND	0.0010	0.00018	02/14/22 14:43	

LABORATORY CONTROL SAMPLE: 3546469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	103	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	0.11	107	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	108	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	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3546470 3546471

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92585058023	Result	Spike Conc.	Spike Conc.							
Antimony	mg/L	0.027	0.1	0.1	0.1	0.13	0.14	107	110	75-125	3	20
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	104	75-125	1	20

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

Parameter	Units	3546470		3546471		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585058023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.049	0.1	0.1	0.16	0.17	115	119	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Boron	mg/L	0.021J	1	1	0.95	0.96	93	94	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20		
Chromium	mg/L	0.0011J	0.1	0.1	0.10	0.10	104	100	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.095	100	95	75-125	6	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	0	20		
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.10	94	93	75-125	1	20		
Molybdenum	mg/L	0.0041J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	99	102	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND
 Pace Project No.: 92585717

QC Batch: 677024 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 3543214 Matrix: Water
 Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/09/22 15:30	

LABORATORY CONTROL SAMPLE: 3543215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3543216 3543217

Parameter	Units	3543216		3543217		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	0.0024	98	95	75-125	4	20

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND
 Pace Project No.: 92585717

QC Batch: 676426 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: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 3540491 Matrix: Water
 Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 15:05	

LABORATORY CONTROL SAMPLE: 3540492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	372	93	80-120	

SAMPLE DUPLICATE: 3540493

Parameter	Units	92585920001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1260	1240	1	25	

SAMPLE DUPLICATE: 3540494

Parameter	Units	92585490001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3160	2680	16	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

QC Batch:	797156	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585717001

METHOD BLANK: 4236642 Matrix: Water

Associated Lab Samples: 92585717001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/03/22 20:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 20:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 20:09	

LABORATORY CONTROL SAMPLE & LCSD: 4236643 4236644

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	42.2	42.2	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4236645 4236646

Parameter	Units	10595801002 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	73.8	40	40	114	114	101	102	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4236647 4236648

Parameter	Units	10595871007 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	884	40	40	923	924	98	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

QC Batch:	798025	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 4240244 Matrix: Water
 Associated Lab Samples: 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/09/22 14:38	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 14:38	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 14:38	

Parameter	Units	4240245		4240246		% Rec	LCSD	% Rec	Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD							
Alkalinity, Total as CaCO3	mg/L	40	41.9	41.9	105	105	90-110	0	20			

Parameter	Units	4240247		4240248		MS	MSD	% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
		92585555010	MS Spike Conc.	MSD Spike Conc.	MS Result										MSD Result
Alkalinity, Total as CaCO3	mg/L	8.1	40	40	50.3	51.8	106	109	80-120	3	20			

Parameter	Units	4240249		4240250		MS	MSD	% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
		10596970001	MS Spike Conc.	MSD Spike Conc.	MS Result										MSD Result
Alkalinity, Total as CaCO3	mg/L	21.0	40	40	60.5	60.8	99	99	80-120	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 AP-BCD/E BACKGROUND

Pace Project No.: 92585717

QC Batch: 676333 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: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

METHOD BLANK: 3540067 Matrix: Water
 Associated Lab Samples: 92585717001, 92585717002, 92585717003, 92585717004, 92585717005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 07:26	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 07:26	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 07:26	

LABORATORY CONTROL SAMPLE: 3540068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.0	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540069 3540070

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585636004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	20.0	50	50	66.6	69.9	93	100	90-110	5	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.4	2.6	92	100	90-110	7	10		
Sulfate	mg/L	25.3	50	50	71.8	75.0	93	99	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540071 3540072

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585717003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.4	50	50	54.7	55.0	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.1	51.4	101	102	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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QUALIFIERS

Project: BRANCH AP-BCD/E BACKGROUND

Pace Project No.: 92585717

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD/E BACKGROUND
 Pace Project No.: 92585717

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585717001	BRGWA-2S				
92585717002	BRGWA-2I				
92585717003	BRGWA-5S				
92585717004	BRGWA-5I				
92585717005	BRGWA-6S				
92585717001	BRGWA-2S	EPA 3010A	677807	EPA 6010D	677941
92585717002	BRGWA-2I	EPA 3010A	677807	EPA 6010D	677941
92585717003	BRGWA-5S	EPA 3010A	677807	EPA 6010D	677941
92585717004	BRGWA-5I	EPA 3010A	677807	EPA 6010D	677941
92585717005	BRGWA-6S	EPA 3010A	677807	EPA 6010D	677941
92585717001	BRGWA-2S	EPA 3005A	677647	EPA 6020B	677773
92585717002	BRGWA-2I	EPA 3005A	677647	EPA 6020B	677773
92585717003	BRGWA-5S	EPA 3005A	677647	EPA 6020B	677773
92585717004	BRGWA-5I	EPA 3005A	677647	EPA 6020B	677773
92585717005	BRGWA-6S	EPA 3005A	677647	EPA 6020B	677773
92585717001	BRGWA-2S	EPA 7470A	677024	EPA 7470A	677121
92585717002	BRGWA-2I	EPA 7470A	677024	EPA 7470A	677121
92585717003	BRGWA-5S	EPA 7470A	677024	EPA 7470A	677121
92585717004	BRGWA-5I	EPA 7470A	677024	EPA 7470A	677121
92585717005	BRGWA-6S	EPA 7470A	677024	EPA 7470A	677121
92585717001	BRGWA-2S	SM 2540C-2015	676426		
92585717002	BRGWA-2I	SM 2540C-2015	676426		
92585717003	BRGWA-5S	SM 2540C-2015	676426		
92585717004	BRGWA-5I	SM 2540C-2015	676426		
92585717005	BRGWA-6S	SM 2540C-2015	676426		
92585717001	BRGWA-2S	SM 2320B	797156		
92585717002	BRGWA-2I	SM 2320B	798025		
92585717003	BRGWA-5S	SM 2320B	798025		
92585717004	BRGWA-5I	SM 2320B	798025		
92585717005	BRGWA-6S	SM 2320B	798025		
92585717001	BRGWA-2S	EPA 300.0 Rev 2.1 1993	676333		
92585717002	BRGWA-2I	EPA 300.0 Rev 2.1 1993	676333		
92585717003	BRGWA-5S	EPA 300.0 Rev 2.1 1993	676333		
92585717004	BRGWA-5I	EPA 300.0 Rev 2.1 1993	676333		
92585717005	BRGWA-6S	EPA 300.0 Rev 2.1 1993	676333		

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# : 92585717**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *DD 9-2-22*

Packing Material: Bubble Wrap Bubble Bag None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR (Gun) N/A 23.0 Type of Ice: Frost Blue None

Cooler Temp: 1.6 Correction Factor: 0.2
Add/Subtract (C/F) 2.2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

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 with in 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.
Batch 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	<i>WT</i>			
Headspace in VOA Vials (>3-6mm)?	<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 SCUR Review: _____ Date: _____

Project Manager SPF Review: _____ Date: _____



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.01

Document Issued: November 15, 2021
Page 1 of 1
Issuing Authority:
Pace Carolina Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VDA, Coliform, TOC, Oil and Grease, DRD/BOD5 (water) DOC, UMG

**Bottom half of box is to list number of bottles

Project # **W0# : 92585717**

PR: NPC

Due Date: 02/18/22

CLIENT: CR-CR Power

Matrix	Bottle	1	2	3	4	5	6	7	8	9	10	11	12
BPHU-125 ml, Plastic Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-250 ml, Plastic Unpreserved (N/A)		2	2	2	2	2	/	/	/	/	/	/	/
BPHU-500 ml, Plastic Unpreserved (N/A)		1	1	1	1	1	/	/	/	/	/	/	/
BPHU-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-1.25 ml, Plastic H2SO4 (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-250 ml, Plastic H2O2 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-1.25 ml, Plastic 2% Acetate B. NaOH (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-125 ml, Plastic NaOH (pH < 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
WQDU-Wide-mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-250 ml, Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-250 ml, Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-500ml-250 ml, Amber H2O2 (N/A)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
DCPH-40 ml, VOA HCl (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQPH-40 ml, VOA H2O2 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQPH-40 ml, VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DCPH-40 ml, VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQPH-40 ml, VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VQPH-135 ml, Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
SP2T-250 ml, Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
BPHU-250 ml, Plastic (N/A) (D-1)		BPHU											
BPHU-250 ml, Plastic (N/A) (D-1)		BPHU											
AGDU-200 ml, Amber Unpreserved vials (N/A)		AGDU											
VQPH-20 ml, Solubilization vials (N/A)		VQPH											
DCPH-40 ml, Amber Unpreserved vials (N/A)		DCPH											

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 District Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers)



CHAIN-OF-CUSTODY / Analytical Request Document
 This Chain-of-Custody is a LEGAL DOCUMENT. All operators listed must be completed accurately.

Page: 1 of 1

Section A: Requester Information
 Agency: **Section B: Requested Analytical Services**
 Requester Name: **Section C: Sample Information**
 Requester Title: **Section D: Sample Description**
 Date: **Section E: Sample Collection**
 Location: **Section F: Sample Storage**
 Collector Name: **Section G: Sample Handling**
 Collector Title:

ITEM #	SAMPLE ID	Description of Sample	Quantity	Unit	Container	Preservation	Analytical Test				Requester Name (Print)
							Asst	GC	MS	MS/MS	
1	Sample 01		1	mg							
2	Sample 02		1	mg							
3	Sample 03		1	mg							
4	Sample 04		1	mg							
5	Sample 05		1	mg							
6											
7											
8											
9											
10											
11											
12											

Section H: Laboratory Information
 Laboratory Name: **Section I: Analyst Information**
 Analyst Name: **Section J: Date and Time**
 Date: Time:

John W. [Signature] / [Signature] Date: 2/2/22



March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-E
Pace Project No.: 92585727

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2022 and February 03, 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

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

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CERTIFICATIONS

Project: BRANCH AP-E

Pace Project No.: 92585727

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 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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-E
Pace Project No.: 92585727

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585727001	BRGWC-17S	Water	02/01/22 15:28	02/02/22 10:25
92585727002	BRGWC-33S	Water	02/01/22 11:02	02/02/22 10:25
92585727003	BRGWC-34S	Water	02/01/22 13:00	02/02/22 10:25
92585727004	BRGWC-35S	Water	02/01/22 14:20	02/02/22 10:25
92585727005	BRGWC-36S	Water	02/01/22 13:23	02/02/22 10:25
92585727006	BRGWC-38S	Water	02/01/22 15:15	02/02/22 10:25
92585727007	EB-1	Water	02/01/22 16:15	02/02/22 10:25
92585727008	FB-1	Water	02/01/22 11:30	02/02/22 10:25
92585727009	DUP-1	Water	02/01/22 00:00	02/02/22 10:25
92585727010	BRGWC-37S	Water	02/02/22 09:20	02/03/22 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585727001	BRGWC-17S	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
92585727002	BRGWC-33S	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
92585727003	BRGWC-34S	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
92585727004	BRGWC-35S	SM 2540C-2015	ALW	1	PASI-GA
		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
92585727005	BRGWC-36S	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	CDC	3	PASI-A
		EPA 6010D	KH	6	PASI-GA
92585727006	BRGWC-38S	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
92585727007	EB-1	EPA 6010D	KH	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E
 Pace Project No.: 92585727

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585727008	FB-1	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	1	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92585727009	DUP-1	SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	1	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	JCM	3	PASI-A
92585727010	BRGWC-37S	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
		EPA 300.0 Rev 2.1 1993	JCM	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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585727001	BRGWC-17S					
	Performed by	CUSTOME			02/02/22 14:31	
		R				
	pH	6.39	Std. Units		02/02/22 14:31	
EPA 6010D	Potassium	0.99	mg/L	0.20	02/13/22 18:42	
EPA 6010D	Sodium	22.3	mg/L	1.0	02/13/22 18:42	
EPA 6010D	Calcium	41.5	mg/L	1.0	02/13/22 18:42	
EPA 6010D	Magnesium	22.3	mg/L	0.050	02/13/22 18:42	
EPA 6020B	Barium	0.045	mg/L	0.0050	02/12/22 17:25	
EPA 6020B	Boron	0.013J	mg/L	0.040	02/12/22 17:25	
EPA 6020B	Chromium	0.013	mg/L	0.0050	02/12/22 17:25	
EPA 6020B	Lithium	0.00096J	mg/L	0.030	02/12/22 17:25	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	02/12/22 17:25	
SM 2540C-2015	Total Dissolved Solids	354	mg/L	10.0	02/07/22 15:47	
SM 2320B	Alkalinity, Total as CaCO3	78.0	mg/L	5.0	02/09/22 22:10	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	78.0	mg/L	5.0	02/09/22 22:10	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/07/22 13:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	02/07/22 13:55	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	02/08/22 11:53	
92585727002	BRGWC-33S					
	Performed by	CUSTOME			02/02/22 14:31	
		R				
	pH	4.82	Std. Units		02/02/22 14:31	
EPA 6010D	Manganese	0.97	mg/L	0.040	02/13/22 18:47	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/13/22 18:47	
EPA 6010D	Sodium	12.1	mg/L	1.0	02/13/22 18:47	
EPA 6010D	Calcium	34.3	mg/L	1.0	02/13/22 18:47	
EPA 6010D	Magnesium	3.7	mg/L	0.050	02/13/22 18:47	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/12/22 17:31	
EPA 6020B	Beryllium	0.0013	mg/L	0.00050	02/12/22 17:31	
EPA 6020B	Boron	1.1	mg/L	0.040	02/12/22 17:31	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	02/12/22 17:31	
EPA 6020B	Cobalt	0.027	mg/L	0.0050	02/12/22 17:31	
EPA 6020B	Lithium	0.0083J	mg/L	0.030	02/12/22 17:31	
SM 2540C-2015	Total Dissolved Solids	209	mg/L	10.0	02/07/22 15:47	
SM 2320B	Alkalinity, Total as CaCO3	2.8J	mg/L	5.0	02/10/22 14:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	2.8J	mg/L	5.0	02/10/22 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	13.1	mg/L	1.0	02/07/22 14:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/07/22 14:10	
EPA 300.0 Rev 2.1 1993	Sulfate	99.7	mg/L	2.0	02/08/22 12:09	
92585727003	BRGWC-34S					
	Performed by	CUSTOME			02/02/22 14:32	
		R				
	pH	5.87	Std. Units		02/02/22 14:32	
EPA 6010D	Manganese	3.3	mg/L	0.040	02/13/22 18:52	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/13/22 18:52	
EPA 6010D	Sodium	21.3	mg/L	1.0	02/13/22 18:52	
EPA 6010D	Calcium	81.7	mg/L	1.0	02/13/22 18:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585727003	BRGWC-34S					
EPA 6010D	Magnesium	16.1	mg/L	0.050	02/13/22 18:52	
EPA 6020B	Barium	0.024	mg/L	0.0050	02/12/22 17:37	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	02/12/22 17:37	
EPA 6020B	Boron	2.2	mg/L	0.040	02/12/22 17:37	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/12/22 17:37	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	02/12/22 17:37	
EPA 6020B	Lithium	0.00085J	mg/L	0.030	02/12/22 17:37	
SM 2540C-2015	Total Dissolved Solids	449	mg/L	10.0	02/07/22 15:48	
SM 2320B	Alkalinity, Total as CaCO3	29.0	mg/L	5.0	02/10/22 14:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	29.0	mg/L	5.0	02/10/22 14:50	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	02/07/22 14:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	02/07/22 14:25	
EPA 300.0 Rev 2.1 1993	Sulfate	243	mg/L	5.0	02/08/22 12:24	
92585727004	BRGWC-35S					
	Performed by	CUSTOMER			02/02/22 14:32	
	pH	6.09	Std. Units		02/02/22 14:32	
EPA 6010D	Iron	0.036J	mg/L	0.040	02/13/22 18:56	
EPA 6010D	Manganese	0.011J	mg/L	0.040	02/13/22 18:56	
EPA 6010D	Potassium	4.3	mg/L	0.20	02/13/22 18:56	
EPA 6010D	Sodium	20.1	mg/L	1.0	02/13/22 18:56	
EPA 6010D	Calcium	73.8	mg/L	1.0	02/13/22 18:56	
EPA 6010D	Magnesium	36.0	mg/L	0.050	02/13/22 18:56	
EPA 6020B	Barium	0.033	mg/L	0.0050	02/12/22 17:42	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	02/12/22 17:42	
EPA 6020B	Boron	2.1	mg/L	0.040	02/12/22 17:42	
EPA 6020B	Chromium	0.0056	mg/L	0.0050	02/12/22 17:42	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/12/22 17:42	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	10.0	02/07/22 15:48	
SM 2320B	Alkalinity, Total as CaCO3	52.4	mg/L	5.0	02/10/22 14:54	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	52.4	mg/L	5.0	02/10/22 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	02/07/22 14:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/07/22 14:40	
EPA 300.0 Rev 2.1 1993	Sulfate	256	mg/L	6.0	02/08/22 12:39	
92585727005	BRGWC-36S					
	Performed by	CUSTOMER			02/02/22 14:32	
	pH	5.65	Std. Units		02/02/22 14:32	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/13/22 19:01	
EPA 6010D	Sodium	39.2	mg/L	1.0	02/13/22 19:01	
EPA 6010D	Calcium	49.7	mg/L	1.0	02/13/22 19:01	
EPA 6010D	Magnesium	19.8	mg/L	0.050	02/13/22 19:01	
EPA 6020B	Barium	0.029	mg/L	0.0050	02/14/22 16:25	
EPA 6020B	Beryllium	0.000087J	mg/L	0.00050	02/12/22 18:00	
EPA 6020B	Boron	1.0	mg/L	0.040	02/12/22 18:00	
EPA 6020B	Chromium	0.0068	mg/L	0.0050	02/12/22 18:00	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/12/22 18:00	

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SUMMARY OF DETECTION

Project: BRANCH AP-E
 Pace Project No.: 92585727

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92585727005	BRGWC-36S					
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	02/12/22 18:00	
SM 2540C-2015	Total Dissolved Solids	441	mg/L	10.0	02/07/22 15:49	
SM 2320B	Alkalinity, Total as CaCO3	20.8	mg/L	5.0	02/10/22 14:59	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	20.8	mg/L	5.0	02/10/22 14:59	
EPA 300.0 Rev 2.1 1993	Chloride	7.6	mg/L	1.0	02/06/22 23:30	
EPA 300.0 Rev 2.1 1993	Sulfate	195	mg/L	5.0	02/07/22 13:39	M1
92585727006	BRGWC-38S					
	Performed by	CUSTOMER			02/02/22 14:32	
	pH	4.06	Std. Units		02/02/22 14:32	
EPA 6010D	Iron	0.064	mg/L	0.040	02/13/22 19:15	
EPA 6010D	Manganese	1.9	mg/L	0.040	02/13/22 19:15	
EPA 6010D	Potassium	6.5	mg/L	0.20	02/13/22 19:15	
EPA 6010D	Sodium	46.8	mg/L	1.0	02/13/22 19:15	
EPA 6010D	Calcium	37.8	mg/L	1.0	02/13/22 19:15	
EPA 6010D	Magnesium	40.3	mg/L	0.050	02/13/22 19:15	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/14/22 16:31	
EPA 6020B	Beryllium	0.0072	mg/L	0.00050	02/12/22 18:06	
EPA 6020B	Boron	1.6	mg/L	0.040	02/12/22 18:06	
EPA 6020B	Cadmium	0.00058	mg/L	0.00050	02/14/22 16:31	
EPA 6020B	Chromium	0.0035J	mg/L	0.0050	02/12/22 18:06	
EPA 6020B	Cobalt	0.18	mg/L	0.0050	02/12/22 18:06	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/12/22 18:06	
EPA 6020B	Selenium	0.029	mg/L	0.0050	02/12/22 18:06	
SM 2540C-2015	Total Dissolved Solids	560	mg/L	10.0	02/07/22 15:49	
EPA 300.0 Rev 2.1 1993	Chloride	5.8	mg/L	1.0	02/07/22 00:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.95	mg/L	0.10	02/07/22 00:11	
EPA 300.0 Rev 2.1 1993	Sulfate	287	mg/L	7.0	02/07/22 14:21	
92585727007	EB-1					
SM 2540C-2015	Total Dissolved Solids	15.0	mg/L	10.0	02/07/22 15:50	
92585727009	DUP-1					
EPA 6010D	Calcium	84.3	mg/L	1.0	02/13/22 19:29	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/14/22 17:02	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	02/12/22 18:24	
EPA 6020B	Boron	2.2	mg/L	0.040	02/12/22 18:24	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	02/14/22 17:02	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	02/12/22 18:24	
EPA 6020B	Lithium	0.00080J	mg/L	0.030	02/12/22 18:24	
SM 2540C-2015	Total Dissolved Solids	440	mg/L	10.0	02/07/22 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	02/07/22 00:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	02/07/22 00:53	
EPA 300.0 Rev 2.1 1993	Sulfate	228	mg/L	5.0	02/07/22 14:34	
92585727010	BRGWC-37S					
	Performed by	CUSTOMER			02/03/22 12:53	

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SUMMARY OF DETECTION

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585727010	BRGWC-37S					
	pH	5.80	Std. Units		02/03/22 12:53	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/13/22 19:39	
EPA 6010D	Sodium	5.0	mg/L	1.0	02/13/22 19:39	
EPA 6010D	Calcium	3.7	mg/L	1.0	02/13/22 19:39	
EPA 6010D	Magnesium	1.2	mg/L	0.050	02/13/22 19:39	
EPA 6020B	Barium	0.025	mg/L	0.0050	02/14/22 21:44	
EPA 6020B	Boron	0.032J	mg/L	0.040	02/14/22 21:44	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	02/14/22 21:44	
SM 2540C-2015	Total Dissolved Solids	46.0	mg/L	10.0	02/07/22 17:22	
SM 2320B	Alkalinity, Total as CaCO3	23.2	mg/L	5.0	02/10/22 15:55	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	23.2	mg/L	5.0	02/10/22 15:55	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	02/07/22 13:25	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-17S **Lab ID: 92585727001** Collected: 02/01/22 15:28 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:31		
pH	6.39	Std. Units			1		02/02/22 14:31		

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	02/12/22 08:57	02/13/22 18:42	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:42	7439-96-5	
Potassium	0.99	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:42	7440-09-7	
Sodium	22.3	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:42	7440-23-5	
Calcium	41.5	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:42	7440-70-2	
Magnesium	22.3	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:42	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/12/22 08:26	02/12/22 17:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:25	7440-38-2	
Barium	0.045	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/12/22 17:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 17:25	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 17:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/12/22 17:25	7440-43-9	
Chromium	0.013	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 17:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/12/22 17:25	7439-92-1	
Lithium	0.00096J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 17:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/12/22 17:25	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 17:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:02	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:17	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	354	mg/L	10.0	10.0	1		02/07/22 15:47		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	78.0	mg/L	5.0	1.8	1		02/09/22 22:10		
Alkalinity,Bicarbonate (CaCO3)	78.0	mg/L	5.0	1.8	1		02/09/22 22:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/09/22 22:10		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-17S **Lab ID: 92585727001** Collected: 02/01/22 15:28 Received: 02/02/22 10:25 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	4.9	mg/L	1.0	0.60	1		02/07/22 13:55	16887-00-6	
Fluoride	0.079J	mg/L	0.10	0.050	1		02/07/22 13:55	16984-48-8	
Sulfate	139	mg/L	3.0	1.5	3		02/08/22 11:53	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-33S **Lab ID: 92585727002** Collected: 02/01/22 11:02 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:31		
pH	4.82	Std. Units			1		02/02/22 14:31		

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	02/12/22 08:57	02/13/22 18:47	7439-89-6	
Manganese	0.97	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:47	7439-96-5	
Potassium	9.5	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:47	7440-09-7	
Sodium	12.1	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:47	7440-23-5	
Calcium	34.3	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:47	7440-70-2	
Magnesium	3.7	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:47	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/12/22 08:26	02/12/22 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:31	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/12/22 17:31	7440-39-3	
Beryllium	0.0013	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 17:31	7440-41-7	
Boron	1.1	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 17:31	7440-42-8	
Cadmium	0.00023J	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/12/22 17:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:31	7440-47-3	
Cobalt	0.027	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 17:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/12/22 17:31	7439-92-1	
Lithium	0.0083J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 17:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/12/22 17:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:07	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	02/09/22 11:00	02/09/22 16:20	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	209	mg/L	10.0	10.0	1		02/07/22 15:47		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	2.8J	mg/L	5.0	1.8	1		02/10/22 14:43		
Alkalinity,Bicarbonate (CaCO3)	2.8J	mg/L	5.0	1.8	1		02/10/22 14:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:43		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: **BRGWC-33S** Lab ID: **92585727002** Collected: 02/01/22 11:02 Received: 02/02/22 10:25 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	13.1	mg/L	1.0	0.60	1		02/07/22 14:10	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/07/22 14:10	16984-48-8	
Sulfate	99.7	mg/L	2.0	1.0	2		02/08/22 12:09	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-34S **Lab ID: 92585727003** Collected: 02/01/22 13:00 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:32		
pH	5.87	Std. Units			1		02/02/22 14:32		

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	02/12/22 08:57	02/13/22 18:52	7439-89-6	
Manganese	3.3	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:52	7439-96-5	
Potassium	3.5	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:52	7440-09-7	
Sodium	21.3	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:52	7440-23-5	
Calcium	81.7	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:52	7440-70-2	
Magnesium	16.1	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:52	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	02/12/22 08:26	02/12/22 17:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:37	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/12/22 17:37	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 17:37	7440-41-7	
Boron	2.2	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 17:37	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/12/22 17:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:37	7440-47-3	
Cobalt	0.0044J	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 17:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/12/22 17:37	7439-92-1	
Lithium	0.00085J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 17:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/12/22 17:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 17:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:13	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:22	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	449	mg/L	10.0	10.0	1		02/07/22 15:48		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	29.0	mg/L	5.0	1.8	1		02/10/22 14:50		
Alkalinity,Bicarbonate (CaCO3)	29.0	mg/L	5.0	1.8	1		02/10/22 14:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:50		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-34S **Lab ID: 92585727003** Collected: 02/01/22 13:00 Received: 02/02/22 10:25 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	5.9	mg/L	1.0	0.60	1		02/07/22 14:25	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		02/07/22 14:25	16984-48-8	
Sulfate	243	mg/L	5.0	2.5	5		02/08/22 12:24	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-35S **Lab ID: 92585727004** Collected: 02/01/22 14:20 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:32		
pH	6.09	Std. Units			1		02/02/22 14:32		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.036J	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 18:56	7439-89-6	
Manganese	0.011J	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 18:56	7439-96-5	
Potassium	4.3	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 18:56	7440-09-7	
Sodium	20.1	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 18:56	7440-23-5	
Calcium	73.8	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 18:56	7440-70-2	
Magnesium	36.0	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 18:56	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	02/12/22 08:26	02/12/22 17:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:42	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/12/22 17:42	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 17:42	7440-41-7	
Boron	2.1	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 17:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/12/22 17:42	7440-43-9	
Chromium	0.0056	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 17:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 17:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 16:19	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 17:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/12/22 17:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 17:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:19	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:25	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	521	mg/L	10.0	10.0	1		02/07/22 15:48		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	52.4	mg/L	5.0	1.8	1		02/10/22 14:54		
Alkalinity,Bicarbonate (CaCO3)	52.4	mg/L	5.0	1.8	1		02/10/22 14:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:54		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-35S **Lab ID: 92585727004** Collected: 02/01/22 14:20 Received: 02/02/22 10:25 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	6.0	mg/L	1.0	0.60	1		02/07/22 14:40	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/07/22 14:40	16984-48-8	
Sulfate	256	mg/L	6.0	3.0	6		02/08/22 12:39	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-36S **Lab ID: 92585727005** Collected: 02/01/22 13:23 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:32		
pH	5.65	Std. Units			1		02/02/22 14:32		

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	02/12/22 08:57	02/13/22 19:01	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 19:01	7439-96-5	
Potassium	3.7	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 19:01	7440-09-7	
Sodium	39.2	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 19:01	7440-23-5	
Calcium	49.7	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 19:01	7440-70-2	
Magnesium	19.8	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 19:01	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/12/22 08:26	02/14/22 16:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:00	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/14/22 16:25	7440-39-3	
Beryllium	0.000087J	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 18:00	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/14/22 16:25	7440-43-9	
Chromium	0.0068	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 16:25	7439-92-1	
Lithium	0.0023J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/14/22 16:25	7439-98-7	
Selenium	0.0025J	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:25	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:28	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	441	mg/L	10.0	10.0	1		02/07/22 15:49		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	20.8	mg/L	5.0	1.8	1		02/10/22 14:59		
Alkalinity,Bicarbonate (CaCO3)	20.8	mg/L	5.0	1.8	1		02/10/22 14:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 14:59		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-36S **Lab ID: 92585727005** Collected: 02/01/22 13:23 Received: 02/02/22 10:25 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	7.6	mg/L	1.0	0.60	1		02/06/22 23:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/06/22 23:30	16984-48-8	M1
Sulfate	195	mg/L	5.0	2.5	5		02/07/22 13:39	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH AP-E
 Pace Project No.: 92585727

Sample: BRGWC-38S **Lab ID: 92585727006** Collected: 02/01/22 15:15 Received: 02/02/22 10:25 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

Performed by	CUSTOMER				1		02/02/22 14:32		
pH	4.06	Std. Units			1		02/02/22 14:32		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Peachtree Corners, GA

Iron	0.064	mg/L	0.040	0.025	1	02/12/22 08:57	02/13/22 19:15	7439-89-6	
Manganese	1.9	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 19:15	7439-96-5	
Potassium	6.5	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 19:15	7440-09-7	
Sodium	46.8	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 19:15	7440-23-5	
Calcium	37.8	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 19:15	7440-70-2	
Magnesium	40.3	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 19:15	7439-95-4	

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/12/22 08:26	02/14/22 16:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:06	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/14/22 16:31	7440-39-3	
Beryllium	0.0072	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 18:06	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 18:06	7440-42-8	
Cadmium	0.00058	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/14/22 16:31	7440-43-9	
Chromium	0.0035J	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:06	7440-47-3	
Cobalt	0.18	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 16:31	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 18:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/14/22 16:31	7439-98-7	
Selenium	0.029	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:31	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:30	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	560	mg/L	10.0	10.0	1		02/07/22 15:49		
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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 15:02		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:02		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-38S **Lab ID: 92585727006** Collected: 02/01/22 15:15 Received: 02/02/22 10:25 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	5.8	mg/L	1.0	0.60	1		02/07/22 00:11	16887-00-6	
Fluoride	0.95	mg/L	0.10	0.050	1		02/07/22 00:11	16984-48-8	
Sulfate	287	mg/L	7.0	3.5	7		02/07/22 14:21	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E
 Pace Project No.: 92585727

Sample: EB-1		Lab ID: 92585727007		Collected: 02/01/22 16:15	Received: 02/02/22 10:25	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	02/12/22 08:57	02/13/22 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	02/12/22 08:26	02/14/22 16:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:12	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/14/22 16:50	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 18:12	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 18:12	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/14/22 16:50	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 18:12	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 16:50	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 18:12	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/14/22 16:50	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 18:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:50	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:33	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	15.0	mg/L	10.0	10.0	1		02/07/22 15:50			
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		02/07/22 00:25	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 00:25	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 00:25	14808-79-8		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: FB-1 **Lab ID: 92585727008** Collected: 02/01/22 11:30 Received: 02/02/22 10:25 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	02/12/22 08:57	02/13/22 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	02/12/22 08:26	02/14/22 16:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/14/22 16:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 18:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/14/22 16:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 16:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 18:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/14/22 16:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 16:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/07/22 15:50		
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		02/07/22 00:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 00:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 00:39	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: DUP-1 **Lab ID:** 92585727009 Collected: 02/01/22 00:00 Received: 02/02/22 10:25 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	84.3	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 19:29	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	0.00078	1	02/12/22 08:26	02/14/22 17:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:24	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/12/22 08:26	02/14/22 17:02	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000054	1	02/12/22 08:26	02/12/22 18:24	7440-41-7	
Boron	2.2	mg/L	0.040	0.0086	1	02/12/22 08:26	02/12/22 18:24	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00011	1	02/12/22 08:26	02/14/22 17:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/12/22 08:26	02/12/22 18:24	7440-47-3	
Cobalt	0.0039J	mg/L	0.0050	0.00039	1	02/12/22 08:26	02/12/22 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/12/22 08:26	02/14/22 17:02	7439-92-1	
Lithium	0.00080J	mg/L	0.030	0.00073	1	02/12/22 08:26	02/12/22 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/12/22 08:26	02/14/22 17:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/12/22 08:26	02/12/22 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/12/22 08:26	02/14/22 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	0.00020	0.00013	1	02/09/22 11:00	02/09/22 16:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	440	mg/L	10.0	10.0	1		02/07/22 15:51		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		02/07/22 00:53	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		02/07/22 00:53	16984-48-8	
Sulfate	228	mg/L	5.0	2.5	5		02/07/22 14:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: BRGWC-37S **Lab ID: 92585727010** Collected: 02/02/22 09:20 Received: 02/03/22 10:35 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

Performed by	CUSTOMER				1		02/03/22 12:53		
pH	5.80	Std. Units			1		02/03/22 12:53		

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	02/12/22 08:57	02/13/22 19:39	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/12/22 08:57	02/13/22 19:39	7439-96-5	
Potassium	2.3	mg/L	0.20	0.15	1	02/12/22 08:57	02/13/22 19:39	7440-09-7	
Sodium	5.0	mg/L	1.0	0.58	1	02/12/22 08:57	02/13/22 19:39	7440-23-5	
Calcium	3.7	mg/L	1.0	0.12	1	02/12/22 08:57	02/13/22 19:39	7440-70-2	
Magnesium	1.2	mg/L	0.050	0.012	1	02/12/22 08:57	02/13/22 19:39	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	02/14/22 08:52	02/14/22 21:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/14/22 08:52	02/14/22 21:44	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	02/14/22 08:52	02/14/22 21:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/22 08:52	02/14/22 21:44	7440-41-7	
Boron	0.032J	mg/L	0.040	0.0086	1	02/14/22 08:52	02/14/22 21:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/22 08:52	02/14/22 21:44	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	02/14/22 08:52	02/14/22 21:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/22 08:52	02/14/22 21:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/22 08:52	02/14/22 21:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/14/22 08:52	02/14/22 21:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/22 08:52	02/14/22 21:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/22 08:52	02/14/22 21:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/22 08:52	02/14/22 21:44	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	02/09/22 11:00	02/09/22 16:46	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	46.0	mg/L	10.0	10.0	1		02/07/22 17:22		
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	23.2	mg/L	5.0	1.8	1		02/10/22 15:55		
Alkalinity,Bicarbonate (CaCO3)	23.2	mg/L	5.0	1.8	1		02/10/22 15:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:55		

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92585727

Sample: **BRGWC-37S** Lab ID: **92585727010** Collected: 02/02/22 09:20 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	1.8	mg/L	1.0	0.60	1		02/07/22 13:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/22 13:25	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/22 13:25	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 677807 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009, 92585727010

METHOD BLANK: 3547708 Matrix: Water
 Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009, 92585727010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/13/22 17:30	
Iron	mg/L	ND	0.040	0.025	02/13/22 17:30	
Magnesium	mg/L	ND	0.050	0.012	02/13/22 17:30	
Manganese	mg/L	ND	0.040	0.0043	02/13/22 17:30	
Potassium	mg/L	ND	0.20	0.15	02/13/22 17:30	
Sodium	mg/L	ND	1.0	0.58	02/13/22 17:30	

LABORATORY CONTROL SAMPLE: 3547709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.95	95	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3547710 3547711

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585717001 Result	Spike Conc.	Spike Conc.	Result							Result
Calcium	mg/L	4.4	1	1	5.3	5.3	94	88	75-125	1	20
Iron	mg/L	0.13	1	1	1.1	1.1	102	98	75-125	3	20
Magnesium	mg/L	4.0	1	1	5.0	4.8	100	87	75-125	3	20
Manganese	mg/L	0.052	1	1	1.1	1.0	102	99	75-125	3	20
Potassium	mg/L	0.29	1	1	1.4	1.4	109	110	75-125	1	20
Sodium	mg/L	3.1	1	1	4.1	4.1	104	99	75-125	1	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: BRANCH AP-E
 Pace Project No.: 92585727

QC Batch: 677804 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

METHOD BLANK: 3547662 Matrix: Water
 Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/12/22 15:37	
Arsenic	mg/L	ND	0.0050	0.0011	02/12/22 15:37	
Barium	mg/L	ND	0.0050	0.00067	02/12/22 15:37	
Beryllium	mg/L	ND	0.00050	0.000054	02/12/22 15:37	
Boron	mg/L	ND	0.040	0.0086	02/12/22 15:37	
Cadmium	mg/L	ND	0.00050	0.00011	02/12/22 15:37	
Chromium	mg/L	ND	0.0050	0.0011	02/12/22 15:37	
Cobalt	mg/L	ND	0.0050	0.00039	02/12/22 15:37	
Lead	mg/L	ND	0.0010	0.00089	02/12/22 15:37	
Lithium	mg/L	ND	0.030	0.00073	02/12/22 15:37	
Molybdenum	mg/L	ND	0.010	0.00074	02/12/22 15:37	
Selenium	mg/L	ND	0.0050	0.0014	02/12/22 15:37	
Thallium	mg/L	ND	0.0010	0.00018	02/14/22 13:53	

LABORATORY CONTROL SAMPLE: 3547663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	105	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	108	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3547664 3547665

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585555001 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	112	106	75-125	6	20

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QUALITY CONTROL DATA

Project: BRANCH AP-E
 Pace Project No.: 92585727

Parameter	Units	3547664		3547665		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585555001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.0021J	0.1	0.1	0.11	0.10	104	100	75-125	3	20		
Barium	mg/L	0.013	0.1	0.1	0.12	0.12	109	102	75-125	6	20		
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.1	109	111	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.094	101	94	75-125	7	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.11	0.10	107	100	75-125	6	20		
Lithium	mg/L	0.0017J	0.1	0.1	0.11	0.10	106	102	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	109	107	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	2	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 678016

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585727010

METHOD BLANK: 3548415

Matrix: Water

Associated Lab Samples: 92585727010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/14/22 20:15	
Arsenic	mg/L	0.0018J	0.0050	0.0011	02/14/22 20:15	
Barium	mg/L	ND	0.0050	0.00067	02/14/22 20:15	
Beryllium	mg/L	ND	0.00050	0.000054	02/14/22 20:15	
Boron	mg/L	ND	0.040	0.0086	02/14/22 20:15	
Cadmium	mg/L	ND	0.00050	0.00011	02/14/22 20:15	
Chromium	mg/L	ND	0.0050	0.0011	02/14/22 20:15	
Cobalt	mg/L	ND	0.0050	0.00039	02/14/22 20:15	
Lead	mg/L	ND	0.0010	0.00089	02/14/22 20:15	
Lithium	mg/L	ND	0.030	0.00073	02/14/22 20:15	
Molybdenum	mg/L	ND	0.010	0.00074	02/14/22 20:15	
Selenium	mg/L	ND	0.0050	0.0014	02/14/22 20:15	
Thallium	mg/L	ND	0.0010	0.00018	02/14/22 20:15	

LABORATORY CONTROL SAMPLE: 3548416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.10	101	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	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548417 3548418

Parameter	Units	9258555011 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	111	75-125	3	20	
Arsenic	mg/L	0.0012J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

Parameter	Units	3548417		3548418		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		9258555011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.029	0.1	0.1	0.14	0.15	112	117	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.096	0.10	96	100	75-125	4	20		
Boron	mg/L	0.020J	1	1	0.97	1.0	95	98	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	99	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.097	0.099	96	99	75-125	2	20		
Molybdenum	mg/L	0.0021J	0.1	0.1	0.11	0.11	105	108	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 677024

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009, 92585727010

METHOD BLANK: 3543214

Matrix: Water

Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009, 92585727010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/09/22 15:30	

LABORATORY CONTROL SAMPLE: 3543215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3543216 3543217

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585717001 Result	Spike Conc.	Spike Conc.	Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	98	95	75-125	4	20

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 676429

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: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

METHOD BLANK: 3540497

Matrix: Water

Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 15:44	

LABORATORY CONTROL SAMPLE: 3540498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	380	95	80-120	

SAMPLE DUPLICATE: 3540499

Parameter	Units	92585723002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	114	114	0	25	

SAMPLE DUPLICATE: 3540500

Parameter	Units	92585727009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	459	4	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 676439	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92585727010	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3540519 Matrix: Water
 Associated Lab Samples: 92585727010

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-E
 Pace Project No.: 92585727

QC Batch: 798068 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92585727001

METHOD BLANK: 4240572 Matrix: Water
 Associated Lab Samples: 92585727001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/09/22 16:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 16:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/09/22 16:51	

LABORATORY CONTROL SAMPLE & LCSD: 4240573 4240574

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	42.2	42.1	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240575 4240576

Parameter	Units	10596353002 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	127	40	40	167	167	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240827 4240828

Parameter	Units	92585555016 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	132	40	40	172	171	100	97	80-120	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch:	798119	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727010		

METHOD BLANK:	4240829	Matrix:	Water
Associated Lab Samples:	92585727002, 92585727003, 92585727004, 92585727005, 92585727006, 92585727010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 14:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:33	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:33	

Parameter	Units	4240830		4240831		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD % Rec				
Alkalinity, Total as CaCO3	mg/L	40	40.3	39.9	101	100	90-110	1	20

Parameter	Units	4240832		4240833		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	2.8J	40	40	43.8	43.8	102	103	80-120	0	20

Parameter	Units	4240834		4240835		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	29.9	40	40	69.2	69.5	98	99	80-120	0	20

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch:	676333	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: 92585727001, 92585727002, 92585727003, 92585727004

METHOD BLANK: 3540067 Matrix: Water
 Associated Lab Samples: 92585727001, 92585727002, 92585727003, 92585727004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 07:26	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 07:26	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 07:26	

LABORATORY CONTROL SAMPLE: 3540068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.0	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540069 3540070

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585636004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	20.0	50	50	66.6	69.9	93	100	90-110	5	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.4	2.6	92	100	90-110	7	10		
Sulfate	mg/L	25.3	50	50	71.8	75.0	93	99	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540071 3540072

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585717003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.4	50	50	54.7	55.0	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.1	51.4	101	102	90-110	1	10		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 676341 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: 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

METHOD BLANK: 3540085 Matrix: Water
 Associated Lab Samples: 92585727005, 92585727006, 92585727007, 92585727008, 92585727009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/06/22 23:02	
Fluoride	mg/L	ND	0.10	0.050	02/06/22 23:02	
Sulfate	mg/L	ND	1.0	0.50	02/06/22 23:02	

LABORATORY CONTROL SAMPLE: 3540086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540087 3540088

Parameter	Units	92585727005		92585727008		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Result								
Chloride	mg/L	7.6	50	50	60.1	60.3	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	111	90-110	1	10	M1	
Sulfate	mg/L	195	50	50	243	239	96	89	90-110	2	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540089 3540090

Parameter	Units	92585920001		92585920002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Result								
Chloride	mg/L	83.4	50	50	116	115	65	63	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.9	113	114	90-110	1	10	M1	
Sulfate	mg/L	15.0	50	50	67.5	67.4	105	105	90-110	0	10		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92585727

QC Batch: 676342	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: 92585727010

METHOD BLANK: 3540091 Matrix: Water

Associated Lab Samples: 92585727010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 06:14	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 06:14	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 06:14	

LABORATORY CONTROL SAMPLE: 3540092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.6	105	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540093 3540094

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585920011 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	17.5	50	50	71.5	71.2	108	107	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.3	3.3	131	128	90-110	2	10	M1	
Sulfate	mg/L	31.5	50	50	84.1	83.2	105	103	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540095 3540096

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585929010 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.1	50	50	64.6	55.4	127	109	90-110	15	10	M1,R1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.5	116	99	90-110	15	10	M1,R1	
Sulfate	mg/L	256	50	50	327	288	141	63	90-110	13	10	M1,R1	

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: BRANCH AP-E

Pace Project No.: 92585727

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-E
 Pace Project No.: 92585727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585727001	BRGWC-17S				
92585727002	BRGWC-33S				
92585727003	BRGWC-34S				
92585727004	BRGWC-35S				
92585727005	BRGWC-36S				
92585727006	BRGWC-38S				
92585727010	BRGWC-37S				
92585727001	BRGWC-17S	EPA 3010A	677807	EPA 6010D	677941
92585727002	BRGWC-33S	EPA 3010A	677807	EPA 6010D	677941
92585727003	BRGWC-34S	EPA 3010A	677807	EPA 6010D	677941
92585727004	BRGWC-35S	EPA 3010A	677807	EPA 6010D	677941
92585727005	BRGWC-36S	EPA 3010A	677807	EPA 6010D	677941
92585727006	BRGWC-38S	EPA 3010A	677807	EPA 6010D	677941
92585727007	EB-1	EPA 3010A	677807	EPA 6010D	677941
92585727008	FB-1	EPA 3010A	677807	EPA 6010D	677941
92585727009	DUP-1	EPA 3010A	677807	EPA 6010D	677941
92585727010	BRGWC-37S	EPA 3010A	677807	EPA 6010D	677941
92585727001	BRGWC-17S	EPA 3005A	677804	EPA 6020B	677940
92585727002	BRGWC-33S	EPA 3005A	677804	EPA 6020B	677940
92585727003	BRGWC-34S	EPA 3005A	677804	EPA 6020B	677940
92585727004	BRGWC-35S	EPA 3005A	677804	EPA 6020B	677940
92585727005	BRGWC-36S	EPA 3005A	677804	EPA 6020B	677940
92585727006	BRGWC-38S	EPA 3005A	677804	EPA 6020B	677940
92585727007	EB-1	EPA 3005A	677804	EPA 6020B	677940
92585727008	FB-1	EPA 3005A	677804	EPA 6020B	677940
92585727009	DUP-1	EPA 3005A	677804	EPA 6020B	677940
92585727010	BRGWC-37S	EPA 3005A	678016	EPA 6020B	678130
92585727001	BRGWC-17S	EPA 7470A	677024	EPA 7470A	677121
92585727002	BRGWC-33S	EPA 7470A	677024	EPA 7470A	677121
92585727003	BRGWC-34S	EPA 7470A	677024	EPA 7470A	677121
92585727004	BRGWC-35S	EPA 7470A	677024	EPA 7470A	677121
92585727005	BRGWC-36S	EPA 7470A	677024	EPA 7470A	677121
92585727006	BRGWC-38S	EPA 7470A	677024	EPA 7470A	677121
92585727007	EB-1	EPA 7470A	677024	EPA 7470A	677121
92585727008	FB-1	EPA 7470A	677024	EPA 7470A	677121
92585727009	DUP-1	EPA 7470A	677024	EPA 7470A	677121
92585727010	BRGWC-37S	EPA 7470A	677024	EPA 7470A	677121
92585727001	BRGWC-17S	SM 2540C-2015	676429		
92585727002	BRGWC-33S	SM 2540C-2015	676429		
92585727003	BRGWC-34S	SM 2540C-2015	676429		
92585727004	BRGWC-35S	SM 2540C-2015	676429		
92585727005	BRGWC-36S	SM 2540C-2015	676429		
92585727006	BRGWC-38S	SM 2540C-2015	676429		
92585727007	EB-1	SM 2540C-2015	676429		
92585727008	FB-1	SM 2540C-2015	676429		
92585727009	DUP-1	SM 2540C-2015	676429		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-E

Pace Project No.: 92585727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585727010	BRGWC-37S	SM 2540C-2015	676439		
92585727001	BRGWC-17S	SM 2320B	798068		
92585727002	BRGWC-33S	SM 2320B	798119		
92585727003	BRGWC-34S	SM 2320B	798119		
92585727004	BRGWC-35S	SM 2320B	798119		
92585727005	BRGWC-36S	SM 2320B	798119		
92585727006	BRGWC-38S	SM 2320B	798119		
92585727010	BRGWC-37S	SM 2320B	798119		
92585727001	BRGWC-17S	EPA 300.0 Rev 2.1 1993	676333		
92585727002	BRGWC-33S	EPA 300.0 Rev 2.1 1993	676333		
92585727003	BRGWC-34S	EPA 300.0 Rev 2.1 1993	676333		
92585727004	BRGWC-35S	EPA 300.0 Rev 2.1 1993	676333		
92585727005	BRGWC-36S	EPA 300.0 Rev 2.1 1993	676341		
92585727006	BRGWC-38S	EPA 300.0 Rev 2.1 1993	676341		
92585727007	EB-1	EPA 300.0 Rev 2.1 1993	676341		
92585727008	FB-1	EPA 300.0 Rev 2.1 1993	676341		
92585727009	DUP-1	EPA 300.0 Rev 2.1 1993	676341		
92585727010	BRGWC-37S	EPA 300.0 Rev 2.1 1993	676342		

REPORT OF LABORATORY ANALYSIS

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Department No. 10
 Sample Condition Upon Receipt (SCUR)
 Department No.
 P-CA-07-013 Rev. 03

Department Report Number: 11, 2013
 Page 2 of 2
 Sample Analysis To
 Face Sample Queue Officer

Laboratory receiving samples:

Asheville Eden Greenwood Hendersonville Raleigh Mechanicsville Adama Knoxville

Customer Order #
 Job #

Client Name:

Georgia Power

Project #

WO#: **92585727**

Customer
 Commercial

Priority Expedite Standard Other



Directly Ship Material? Yes No Ship Material? Yes No

Customer Name (Company Name) (1) 9-2-13

Packing Material: Bubble Wrap Cotton's Bags Loose Other

Biological Sample Storage?

Temperature: Room Temp 2-8 -20 -80 Other

Yes No N/A

Cooler Temp: 2.6 ... Condition Factor: 0
 Admittance (CFR) 0

Temp. Dev. or Above Freezing to 1°C
 To begin use of temp. control system in the testing process
 Not used

Cooler Temp Corrected Yes No

Uddel Support of Sol. N/A, a non sample

Each specimen is analyzed in duplicate using one with the standard buffer. Do you or SC check in spec? Yes No

Do you or SC grade non-eligible checks. Internal results
 require review and sign-off? Yes No
 Comments/Discrepancy

Use of Control Material	SC	QC	QA	1
Is your lab in this range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Should Run Analysis (if not)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Blank Run Allowed (if not)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Is Blank Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Control Control Limit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6
Blank Control Limit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7
Comparison Method	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8
Control Material Sample Method?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9
Temp. Control Material (CFR)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10
Is your lab in this range?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11
Is your lab in this range?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12

COMMENTS/SAMPLE DESCRIPTION

Full Data Required? Yes No

.....

Printer Contacted: _____ Date/Time: _____

Project Manager (S) or (R) Name: _____ Date: _____
 Project Manager (S) or (R) Name: _____ Date: _____

CHAIN OF CUSTODY (Analytical Request Delivered)

1/1/2014

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Document Name: Service Condition Upon Receipt (SCUR)
 Document No: P-CAP-03-013-Rev 06

Document Revised: November 15, 2011
 Page: 1 of 1
 Issuing Authority: Plant Location: Quality Office

Laboratory receiving samples:

Jacksonville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Customer: General Motors

Client Name:



Project #

W04: 92585727

Course: Commercial

Test In
 Pass

PM: NPG Due Date: 02/18/22
 CLIENT: GM-GM Power

Get Other Seal Present? Yes No

Draw/Rev on Part or Drawing: 001 002

Feeding Material: Good Yellow Good Blue None Other

Biological Testing Request?

Thermometer: 4 digit 5 digit

Type of oil

Cooler Temp: 0 Correction Factor: 0
 Add/Subtract (°C): 0

Test is conducted at the following temp: 0
 Temperature of temp before demold or on cooling curve.
 No Temp

Cooler Temp Controlled (°C)

USDA Registered Soil: N/A (not applicable)

Do samples originate from a mold used in the Medical Device, CE, or ISO 13485 market? Yes No

Do samples originate from a design source (non-product) including master and fixture? Yes No
 Comment/Discrepancy:

Check of Category Present?	Yes	No	NA	1
Sample Arrives in this Mold Temp?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Short Mold Time Analyzed (min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Flush Time Allowed (min Requested)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Seal Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Control Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Pass Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Seal Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Temperature of Sample Peak (°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Sample Level (Mass %)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Includes Data/Temp/Pressure/ Mass?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature of VCR (°C) (54°F)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Flow Rate Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Flow Rate Outside seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments/Issues/Discrepancy:

Final Date Reviewed? Yes No

Customer Name/Address:

10100 Woodloch Forest

Printed on: _____ Date/Time: _____

Project Manager (Client System): _____

Date: _____

Project Manager (Lab System): _____

Date: _____

Range

CHAIN OF CUSTODY - Analytical Request Document

Case No. _____ Date of Collection _____ Date of Analysis _____

Requesting Agency _____
Requesting Officer _____
Requesting Agency Address _____
Requesting Agency Phone _____
Requesting Agency Fax _____
Requesting Agency Email _____

Item #	Description	Quantity	Unit	Container	Preservation	Analysis	Remarks
1	SAMPLE 10	1	g				
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3							
4							
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Lab Use Only / Date of Receipt _____

Page 1 of 1



March 11, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-E RAD
Pace Project No.: 92585714

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2022 and February 03, 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 - Greensburg

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.
Karim Minkara, Golder Associates - Atlanta
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Lacy Smith, ERM

Brian Steele, Golder
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-E RAD
Pace Project No.: 92585714

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585714001	BRGWC-17S	Water	02/01/22 15:28	02/02/22 10:25
92585714002	BRGWC-33S	Water	02/01/22 11:02	02/02/22 10:25
92585714003	BRGWC-34S	Water	02/01/22 13:00	02/02/22 10:25
92585714004	BRGWC-35S	Water	02/01/22 14:20	02/02/22 10:25
92585714005	BRGWC-36S	Water	02/01/22 13:23	02/02/22 10:25
92585714006	BRGWC-38S	Water	02/01/22 15:15	02/02/22 10:25
92585714007	EB-1	Water	02/01/22 16:15	02/02/22 10:25
92585714008	FB-1	Water	02/01/22 11:30	02/02/22 10:25
92585714009	DUP-1	Water	02/01/22 00:00	02/02/22 10:25
92585714010	BRGWC-37S	Water	02/02/22 09:20	02/03/22 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585714001	BRGWC-17S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714002	BRGWC-33S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714003	BRGWC-34S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714004	BRGWC-35S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714005	BRGWC-36S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714006	BRGWC-38S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714007	EB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714008	FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714009	DUP-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585714010	BRGWC-37S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585714001	BRGWC-17S					
EPA 9315	Radium-226	0.187 ± 0.188 (0.378) C:95% T:NA	pCi/L		02/17/22 13:56	
EPA 9320	Radium-228	0.316 ± 0.308 (0.628) C:80% T:82%	pCi/L		02/17/22 12:46	
Total Radium Calculation	Total Radium	0.503 ± 0.496 (1.01)	pCi/L		02/21/22 10:10	
92585714002	BRGWC-33S					
EPA 9315	Radium-226	0.112 ± 0.146 (0.307) C:95% T:NA	pCi/L		02/17/22 13:56	
EPA 9320	Radium-228	0.471 ± 0.338 (0.648) C:76% T:87%	pCi/L		02/17/22 12:46	
Total Radium Calculation	Total Radium	0.583 ± 0.484 (0.955)	pCi/L		02/21/22 10:10	
92585714003	BRGWC-34S					
EPA 9315	Radium-226	0.146 ± 0.179 (0.380) C:93% T:NA	pCi/L		02/17/22 13:56	
EPA 9320	Radium-228	0.389 ± 0.356 (0.723) C:74% T:89%	pCi/L		02/17/22 12:46	
Total Radium Calculation	Total Radium	0.535 ± 0.535 (1.10)	pCi/L		02/21/22 10:10	
92585714004	BRGWC-35S					
EPA 9315	Radium-226	0.0960 ± 0.168 (0.382) C:96% T:NA	pCi/L		02/17/22 13:56	
EPA 9320	Radium-228	0.576 ± 0.422 (0.823) C:71% T:87%	pCi/L		02/17/22 13:00	
Total Radium Calculation	Total Radium	0.672 ± 0.590 (1.21)	pCi/L		02/21/22 10:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585714005	BRGWC-36S					
EPA 9315	Radium-226	0.337 ± 0.207 (0.337) C:96% T:NA	pCi/L		02/17/22 13:56	
EPA 9320	Radium-228	1.27 ± 0.796 (1.53) C:69% T:61%	pCi/L		02/17/22 13:04	
Total Radium Calculation	Total Radium	1.61 ± 1.00 (1.87)	pCi/L		02/21/22 10:10	
92585714006	BRGWC-38S					
EPA 9315	Radium-226	0.312 ± 0.168 (0.221) C:98% T:NA	pCi/L		02/18/22 09:19	
EPA 9320	Radium-228	7.33 ± 1.61 (1.23) C:70% T:79%	pCi/L		02/17/22 13:04	
Total Radium Calculation	Total Radium	7.64 ± 1.78 (1.45)	pCi/L		02/21/22 10:10	
92585714007	EB-1					
EPA 9315	Radium-226	0.0593 ± 0.105 (0.237) C:99% T:NA	pCi/L		02/18/22 09:19	
EPA 9320	Radium-228	0.122 ± 0.527 (1.18) C:70% T:88%	pCi/L		02/17/22 13:04	
Total Radium Calculation	Total Radium	0.181 ± 0.632 (1.42)	pCi/L		02/21/22 10:10	
92585714008	FB-1					
EPA 9315	Radium-226	0.0212 ± 0.0971 (0.249) C:95% T:NA	pCi/L		02/18/22 09:19	
EPA 9320	Radium-228	-0.0882 ± 0.327 (0.784) C:78% T:91%	pCi/L		02/17/22 16:18	
Total Radium Calculation	Total Radium	0.0212 ± 0.424 (1.03)	pCi/L		02/21/22 10:10	

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SUMMARY OF DETECTION

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585714009	DUP-1					
EPA 9315	Radium-226	0.110 ± 0.117 (0.226) C:98% T:NA	pCi/L		02/18/22 09:19	
EPA 9320	Radium-228	0.828 ± 0.523 (0.982) C:80% T:65%	pCi/L		02/17/22 16:18	
Total Radium Calculation	Total Radium	0.938 ± 0.640 (1.21)	pCi/L		02/21/22 10:10	
92585714010	BRGWC-37S					
EPA 9315	Radium-226	0.301 ± 0.163 (0.237) C:90% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.353 ± 0.304 (0.605) C:77% T:89%	pCi/L		03/04/22 14:04	
Total Radium Calculation	Total Radium	0.654 ± 0.467 (0.842)	pCi/L		03/10/22 17:16	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-17S Lab ID: 92585714001 Collected: 02/01/22 15:28 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.187 ± 0.188 (0.378) C:95% T:NA	pCi/L	02/17/22 13:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.316 ± 0.308 (0.628) C:80% T:82%	pCi/L	02/17/22 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.503 ± 0.496 (1.01)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-33S Lab ID: 92585714002 Collected: 02/01/22 11:02 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.112 ± 0.146 (0.307) C:95% T:NA	pCi/L	02/17/22 13:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.471 ± 0.338 (0.648) C:76% T:87%	pCi/L	02/17/22 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.583 ± 0.484 (0.955)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-34S Lab ID: 92585714003 Collected: 02/01/22 13:00 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.146 ± 0.179 (0.380) C:93% T:NA	pCi/L	02/17/22 13:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.389 ± 0.356 (0.723) C:74% T:89%	pCi/L	02/17/22 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.535 ± 0.535 (1.10)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-35S Lab ID: 92585714004 Collected: 02/01/22 14:20 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0960 ± 0.168 (0.382) C:96% T:NA	pCi/L	02/17/22 13:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.576 ± 0.422 (0.823) C:71% T:87%	pCi/L	02/17/22 13:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.672 ± 0.590 (1.21)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-36S Lab ID: 92585714005 Collected: 02/01/22 13:23 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.337 ± 0.207 (0.337) C:96% T:NA	pCi/L	02/17/22 13:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.27 ± 0.796 (1.53) C:69% T:61%	pCi/L	02/17/22 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.61 ± 1.00 (1.87)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-38S Lab ID: 92585714006 Collected: 02/01/22 15:15 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.312 ± 0.168 (0.221) C:98% T:NA	pCi/L	02/18/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	7.33 ± 1.61 (1.23) C:70% T:79%	pCi/L	02/17/22 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	7.64 ± 1.78 (1.45)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Sample: EB-1 **Lab ID: 92585714007** Collected: 02/01/22 16:15 Received: 02/02/22 10:25 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	0.0593 ± 0.105 (0.237) C:99% T:NA	pCi/L	02/18/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.122 ± 0.527 (1.18) C:70% T:88%	pCi/L	02/17/22 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.181 ± 0.632 (1.42)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1 Lab ID: 92585714008 Collected: 02/01/22 11:30 Received: 02/02/22 10:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0212 ± 0.0971 (0.249) C:95% T:NA	pCi/L	02/18/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0882 ± 0.327 (0.784) C:78% T:91%	pCi/L	02/17/22 16:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0212 ± 0.424 (1.03)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Sample: DUP-1 **Lab ID: 92585714009** Collected: 02/01/22 00:00 Received: 02/02/22 10:25 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	0.110 ± 0.117 (0.226) C:98% T:NA	pCi/L	02/18/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.828 ± 0.523 (0.982) C:80% T:65%	pCi/L	02/17/22 16:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.938 ± 0.640 (1.21)	pCi/L	02/21/22 10:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RAD

Pace Project No.: 92585714

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-37S Lab ID: 92585714010 Collected: 02/02/22 09:20 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.301 ± 0.163 (0.237) C:90% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.353 ± 0.304 (0.605) C:77% T:89%	pCi/L	03/04/22 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.654 ± 0.467 (0.842)	pCi/L	03/10/22 17:16	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-E RAD
 Pace Project No.: 92585714

QC Batch:	482652	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585714001, 92585714002, 92585714003, 92585714004, 92585714005, 92585714006, 92585714007, 92585714008, 92585714009

METHOD BLANK: 2332806 Matrix: Water

Associated Lab Samples: 92585714001, 92585714002, 92585714003, 92585714004, 92585714005, 92585714006, 92585714007, 92585714008, 92585714009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.173 ± 0.305 (0.667) C:77% T:85%	pCi/L	02/17/22 12:45	

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 AP-E RAD

Pace Project No.: 92585714

QC Batch: 486611

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585714010

METHOD BLANK: 2353259

Matrix: Water

Associated Lab Samples: 92585714010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-E RAD
 Pace Project No.: 92585714

QC Batch:	482098	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585714001, 92585714002, 92585714003, 92585714004, 92585714005, 92585714006, 92585714007, 92585714008, 92585714009

METHOD BLANK: 2330653 Matrix: Water

Associated Lab Samples: 92585714001, 92585714002, 92585714003, 92585714004, 92585714005, 92585714006, 92585714007, 92585714008, 92585714009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0854 ± 0.145 (0.327) C:100% T:NA	pCi/L	02/17/22 13:31	

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 AP-E RAD

Pace Project No.: 92585714

QC Batch: 486654

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585714010

METHOD BLANK: 2353485

Matrix: Water

Associated Lab Samples: 92585714010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0646 ± 0.235 (0.535) C:84% T:93%	pCi/L	03/04/22 10:45	

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 AP-E RAD

Pace Project No.: 92585714

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-E RAD
 Pace Project No.: 92585714

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585714001	BRGWC-17S	EPA 9315	482098		
92585714002	BRGWC-33S	EPA 9315	482098		
92585714003	BRGWC-34S	EPA 9315	482098		
92585714004	BRGWC-35S	EPA 9315	482098		
92585714005	BRGWC-36S	EPA 9315	482098		
92585714006	BRGWC-38S	EPA 9315	482098		
92585714007	EB-1	EPA 9315	482098		
92585714008	FB-1	EPA 9315	482098		
92585714009	DUP-1	EPA 9315	482098		
92585714010	BRGWC-37S	EPA 9315	486611		
92585714001	BRGWC-17S	EPA 9320	482652		
92585714002	BRGWC-33S	EPA 9320	482652		
92585714003	BRGWC-34S	EPA 9320	482652		
92585714004	BRGWC-35S	EPA 9320	482652		
92585714005	BRGWC-36S	EPA 9320	482652		
92585714006	BRGWC-38S	EPA 9320	482652		
92585714007	EB-1	EPA 9320	482652		
92585714008	FB-1	EPA 9320	482652		
92585714009	DUP-1	EPA 9320	482652		
92585714010	BRGWC-37S	EPA 9320	486654		
92585714001	BRGWC-17S	Total Radium Calculation	485223		
92585714002	BRGWC-33S	Total Radium Calculation	485223		
92585714003	BRGWC-34S	Total Radium Calculation	485223		
92585714004	BRGWC-35S	Total Radium Calculation	485223		
92585714005	BRGWC-36S	Total Radium Calculation	485223		
92585714006	BRGWC-38S	Total Radium Calculation	485223		
92585714007	EB-1	Total Radium Calculation	485223		
92585714008	FB-1	Total Radium Calculation	485223		
92585714009	DUP-1	Total Radium Calculation	485223		
92585714010	BRGWC-37S	Total Radium Calculation	489606		

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Department No. 10
 Sample Condition Upon Receipt (SCUR)
 Department No.
 P-CA-07-013 Rev. 03

Department Report Number: 11, 2013
 Page 2 of 2
 Contact Address To:
 Face Contact: Quin D. Coffey

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Adama Kenesville

Customer Order #
 Lab Project #

Client Name:

Georgia Power

Project #

WO#: **92585727**

Container:
 Commercial

Facility: URS Location: Eden



Directly Ship Material? Yes No

Site/Field Name (Name of Company) (1) 9-2-13

Packing Material: Bubble Wrap Cotton's Bags Loose Other

Biological Sample Storage?

Temperature:

Room Temp 25 Dry Cold None

Cooler Temp: 9.6 Condition Factor: 0

Temp. should be above freezing to 4°C

To begin use of temp. control, contact us in the loading process for details.

Cooler Temp Corrected

UPDA Required? No, a new sample

Each specimen should be placed in a separate bag with the correct buffer. Do not use SC (check in spec.)

Do not use bags for non-sterile samples. Internal results available upon request. Yes No

Comments/Inquiries

Use of Control Material	SC	CR	CC	1
Is your lab in this field?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Should have analysis (if not)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Blank Run Amount (if required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Is Blank Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Control Container Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6
Blank Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Container Material	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8
Container Material Sample Identification	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9
Temp. Control Material (SC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10
Is your lab in this field?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11
Is your lab in this field?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12

COMMENTS/SAMPLE DESCRIPTION

Field Data Required? Yes No

City/Village/County/State/Zip

Site/Field Name

Printer Contacted: _____ Date/Time: _____

Project Manager (S) (R) Request _____ Date: _____

Project Manager (S) (R) Request _____ Date: _____

27

CHAIN OF CUSTODY (Analytical Request Delivered)
This form is to be completed by the analyst who delivered the sample to the laboratory.

Original Sample
 Duplicate Sample
 Reference Sample
 Control Sample
 Blank Sample
 Spike Sample
 Other

Date of Receipt: _____
 Date of Release: _____
 Name of Analyst: _____
 Name of Laboratory: _____

Sample ID	Quantity	Unit	Container	Packaging	Labeling	Chain of Custody	Analysis Type		Date of Analysis	Analyst
							Method	Result		
1	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
2	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
3	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
4	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
5	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
6	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
7	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
8	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
9	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL
10	100	g	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL	100 mL

Date of Receipt: _____
 Date of Release: _____
 Name of Analyst: _____
 Name of Laboratory: _____

Date of Receipt: _____
 Date of Release: _____
 Name of Analyst: _____
 Name of Laboratory: _____



Document Name: Service Condition Upon Receipt (SCUR)
 Document No: PL-CAF-013-Rev 06

Document Revised: November 15, 2011
 Page: 1 of 1
 Issuing Authority: Rockwell Automation
 Part Number: 021010000

Laboratory receiving samples:

Jacksonville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Customer Logo

Client Name:

General Motors
 Test Lab Parts Other

Project #

W04: 92585727

Country: Commercial

Part: NPG Due Date: 02/18/22
 CLIENT: GM-GM Power

Get Other Seal Present? Yes No

Draw/Specs/Parties/Customize/Comments

Handwritten notes and signatures

Feeding Material: Blood Vials Culture Bags None Other

Biological Testing Request?

Thermometer: 4 digit 5 digit

Type of Seal

Cooler Temp: 0 Correction Factor: 0
 Add/Subtract (°C): 0

Test is intended for use as a screening test?
 Yes No N/A

Cooler Temp Controlled (°C)

USDA Regulated Soil: N/A (see label)

Do samples originate from a location where the material source is not of SC origin? Yes No

Do samples originate from a location where the material source is not of SC origin?
 Country of Origin: USA Other
 Commercial Description:

Checklist Category/Item	Yes	No	N/A	1
Sample Arrives in this Mold Temp?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Short Mold Time Analyzed (within 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Batch Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Seal used for seal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Seal is Complete (Seal?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Seal is Complete (Seal?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Seal used for seal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Seal used for seal? (Seal?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Seal used for seal? (Seal?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Includes Date/Temperature/Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Includes in VCR (yes) (Seal?)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Includes Seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13
Includes Outside Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments/Remarks (do not handwrite)

Final Date Received? Yes No

Customer Name/Address/Phone

Rockwell Automation

Printed on: _____ Date/Time: _____

Project Manager (Client System): _____

Date: _____

Project Manager (All System): _____

Date: _____

Range

CHAIN OF CUSTODY - Analytical Request Document

Case No. [] Section No. [] Date [] Page [] of []

Case Information:
 Sample Name: []
 Requested By: []
 Requested For: []
 Date Received: []
 Date Analyzed: []
 Location: []

Analytical Request:
 Analytical Method: []
 Reference Material: []
 Laboratory: []

Approval:
 Requesting Officer: []
 Lab Manager: []

SAMPLE ID
 []
 []
 []

Date	Time	Location	Personnel	Sample Description				Sample ID	
				Material	Quantity	Container	Other	Initial	Date

Lab Use Only / []

Page [] of []

Quality Control Sample Performance Assessment

12/13/2017 11:30:00 AM

Time: 11:30 AM
 Location: 200
 Date: 12/13/2017
 Analyst: [Signature]

Sample Matrix: [Text]

Sample Matrix	...
...	...

Sample Matrix	...
...	...

Sample Matrix	...
...	...

Sample Matrix	...
...	...

Sample Matrix	...
...	...

Sample Matrix	...
...	...

[Handwritten signature]

12/13/2017

Quality Control Sample Performance Assessment

Project: **PA-12-000000**
Contract: **12-000000**

Contractor: **PA-12-000000**
Inspector: **PA-12-000000**
Date: **PA-12-000000**

Inspector: **PA-12-000000**

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Item	Quantity	Unit	Value
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Comments:

PA-12-000000

Quality Control Sample Performance Assessment

1. Patient's Name: _____

2. Date: _____
 3. Time: _____
 4. Location: _____

5. All other relevant information: _____

Sample ID	Test Name	Result	Reference Range
1	Glucose	100 mg/dL	70-100 mg/dL
2	Hemoglobin A1c	5.6%	4.0-5.6%
3	Cholesterol (Total)	200 mg/dL	<200 mg/dL
4	Triglycerides	150 mg/dL	<150 mg/dL
5	HDL Cholesterol	40 mg/dL	>40 mg/dL
6	LDL Cholesterol	130 mg/dL	<130 mg/dL
7	BUN	10 mg/dL	7-20 mg/dL
8	Creatinine	1.0 mg/dL	0.7-1.3 mg/dL
9	ALT	25 U/L	7-40 U/L
10	AST	20 U/L	10-40 U/L

Test Name	Result	Reference Range
11. Hemoglobin	15 g/dL	12-16 g/dL
12. Hematocrit	45%	37-47%
13. Hemoglobin A1c	5.6%	4.0-5.6%
14. Fasting Glucose	100 mg/dL	70-100 mg/dL
15. Postprandial Glucose	140 mg/dL	<140 mg/dL
16. Total Cholesterol	200 mg/dL	<200 mg/dL
17. Triglycerides	150 mg/dL	<150 mg/dL
18. HDL Cholesterol	40 mg/dL	>40 mg/dL
19. LDL Cholesterol	130 mg/dL	<130 mg/dL
20. BUN	10 mg/dL	7-20 mg/dL
21. Creatinine	1.0 mg/dL	0.7-1.3 mg/dL
22. ALT	25 U/L	7-40 U/L
23. AST	20 U/L	10-40 U/L

Final Interpretation: The patient's test results are within the reference range for all tests performed. The patient's blood glucose levels are within the normal range, and the hemoglobin A1c is within the normal range. The patient's cholesterol levels are within the normal range, and the liver function tests are within the normal range. The patient's kidney function tests are within the normal range.

Final Interpretation: The patient's test results are within the reference range for all tests performed. The patient's blood glucose levels are within the normal range, and the hemoglobin A1c is within the normal range. The patient's cholesterol levels are within the normal range, and the liver function tests are within the normal range. The patient's kidney function tests are within the normal range.

[Handwritten Signature]

Quality Control Sample Performance Assessment

Project: [illegible]

Analysis Method: [illegible]

Site: [illegible]
 Date: [illegible]
 Analyst: [illegible]

Sample ID	Sample Description	Sample Date	Sample Location
QCS-001	[illegible]	[illegible]	[illegible]
QCS-002	[illegible]	[illegible]	[illegible]
QCS-003	[illegible]	[illegible]	[illegible]
QCS-004	[illegible]	[illegible]	[illegible]
QCS-005	[illegible]	[illegible]	[illegible]

Sample ID	Sample Description	Sample Date	Sample Location
QCS-001	[illegible]	[illegible]	[illegible]
QCS-002	[illegible]	[illegible]	[illegible]
QCS-003	[illegible]	[illegible]	[illegible]
QCS-004	[illegible]	[illegible]	[illegible]
QCS-005	[illegible]	[illegible]	[illegible]

Sample ID	Sample Description	Sample Date	Sample Location
QCS-001	[illegible]	[illegible]	[illegible]
QCS-002	[illegible]	[illegible]	[illegible]
QCS-003	[illegible]	[illegible]	[illegible]
QCS-004	[illegible]	[illegible]	[illegible]
QCS-005	[illegible]	[illegible]	[illegible]

Sample ID	Sample Description	Sample Date	Sample Location
QCS-001	[illegible]	[illegible]	[illegible]
QCS-002	[illegible]	[illegible]	[illegible]
QCS-003	[illegible]	[illegible]	[illegible]
QCS-004	[illegible]	[illegible]	[illegible]
QCS-005	[illegible]	[illegible]	[illegible]

Analysis Method: [illegible]

Comments: [illegible]

[Handwritten signature]

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/2/2022
Worklist: 65307
Matrix: WT

Method Blank Assessment	
MB Sample ID	2353485
MB concentration:	0.065
MB 2 Sigma CSU:	0.235
MB MDC:	0.535
MB Numerical Performance Indicator:	0.54
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS65307	LCS065307
Count Date:	3/4/2022	3/4/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.128	36.128
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.809	0.805
Target Conc. (pCi/L, g, F):	4.467	4.488
Uncertainty (Calculated):	0.219	0.220
Result (pCi/L, g, F):	3.614	3.728
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.822	0.844
Numerical Performance Indicator:	-1.96	-1.71
Percent Recovery:	80.92%	83.07%
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	LCS/D (Y or N)?	Y
Sample I.D.:	LCS65307	LCS065307
Duplicate Sample I.D.:	LCS065307	3/4/2022
Sample Result (pCi/L, g, F):	3.614	21-029
Sample Duplicate Result (pCi/L, g, F):	0.822	36.128
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.728	0.10
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.844	0.809
Are sample and/or duplicate results below RL?	NO	4.467
Duplicate Numerical Performance Indicator:	-0.189	0.219
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	3.614
Duplicate Status vs Numerical Indicator:	Pass	3.728
Duplicate Status vs RPD:	Pass	0.844
% RPD Limit:	36%	-1.96

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):		
MSD Aliquot (L, g, F):		
MS Target Conc. (pCi/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:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
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:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 3/1/2022
Worklist: 65294
Matrix: DW

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS/D65294	3/8/2022
Decay Corrected Spike Concentration (pCi/mL):	19-033		19-033
Volume Used (mL):	24.029		24.029
Aliquot Volume (L, g, F):	0.10		0.10
Target Conc. (pCi/L, g, F):	0.503		0.506
Uncertainty (Calculated):	4.777		4.752
Result (pCi/L, g, F):	0.057		0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508		0.466
Numerical Performance Indicator:	0.51		-1.30
Status vs Numerical Indicator:	102.79%		93.46%
Upper % Recovery Limits:	Pass		N/A
Lower % Recovery Limits:	75%		125%

Duplicate Sample Assessment		LCS/D65294	92587080025DUP
Sample I.D.:	LCS65294		92587080025
Duplicate Sample I.D.:	LCS65294		92587080025DUP
Sample Result (pCi/L, g, F):	4.910		0.708
Sample Duplicate Result (pCi/L, g, F):	0.508		0.212
Sample Result Counting Uncertainty (pCi/L, g, F):	4.441		0.789
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.466		0.203
Are sample and/or duplicate results below RL?:	NO		See Below ##
Duplicate Numerical Performance Indicator:	1.334		-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.51%		10.80%
Duplicate Status vs Numerical Indicator:	N/A		N/A
Duplicate Status vs RPD:	Pass		Pass
% RPD Limit:	25%		25%

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:			
Sample Matrix Spike Duplicate 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:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate 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:	



May 02, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD DELIN PIEZO RAD
Pace Project No.: 92585972

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 - Greensburg

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.
Karim Minkara, Golder Associates - Atlanta
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Brian Steele, Golder Associates Inc_Atlanta



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: BRANCH AP-BCD DELIN PIEZO RAD
Pace Project No.: 92585972

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



SAMPLE SUMMARY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585972001	PZ-51S	Water	02/02/22 13:56	02/03/22 10:35
92585972002	PZ-44	Water	02/02/22 12:23	02/03/22 10:35
92585972003	PZ-51I	Water	02/02/22 16:20	02/03/22 10:35
92585972004	PZ-61I	Water	02/02/22 15:42	02/03/22 10:35
92585972005	FB-2	Water	02/02/22 14:22	02/03/22 10:35
92585972006	EB-2	Water	02/02/22 16:18	02/03/22 10:35
92585972007	PZ-58I	Water	02/03/22 14:13	02/04/22 16:06
92585972008	PZ-59I	Water	02/03/22 12:40	02/04/22 16:06
92585972009	PZ-60I	Water	02/03/22 10:45	02/04/22 16:06
92585972010	PZ-50D	Water	02/03/22 10:54	02/04/22 16:06
92585972011	PZ-51D	Water	02/03/22 16:16	02/04/22 16:06
92585972012	PZ-57I	Water	02/04/22 08:54	02/04/22 16:06
92585972013	PZ-63I	Water	02/04/22 10:15	02/04/22 16:06
92585972014	PZ-62I	Water	02/04/22 10:10	02/04/22 16:06
92585972015	FB-3	Water	02/03/22 11:10	02/04/22 16:06

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585972001	PZ-51S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972002	PZ-44	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972003	PZ-51I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972004	PZ-61I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972005	FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972006	EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972007	PZ-58I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972008	PZ-59I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972009	PZ-60I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972010	PZ-50D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972011	PZ-51D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972012	PZ-57I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92585972013	PZ-63I	EPA 9315	JC2	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585972014	PZ-62I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92585972015	FB-3	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585972001	PZ-51S					
EPA 9315	Radium-226	0.0266 ± 0.0664 (0.160) C:97% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	-0.0997 ± 0.411 (0.975) C:88% T:89%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.0266 ± 0.477 (1.14)	pCi/L		03/22/22 15:19	
92585972002	PZ-44					
EPA 9315	Radium-226	0.103 ± 0.0908 (0.165) C:92% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.141 ± 0.392 (0.879) C:88% T:85%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.244 ± 0.483 (1.04)	pCi/L		03/22/22 15:19	
92585972003	PZ-51I					
EPA 9315	Radium-226	0.186 ± 0.110 (0.165) C:99% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.806 ± 0.485 (0.902) C:89% T:89%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.992 ± 0.595 (1.07)	pCi/L		03/22/22 15:19	
92585972004	PZ-61I					
EPA 9315	Radium-226	0.237 ± 0.117 (0.147) C:102% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.920 ± 0.540 (1.00) C:86% T:90%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	1.16 ± 0.657 (1.15)	pCi/L		03/22/22 15:19	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585972005	FB-2					
EPA 9315	Radium-226	0.00672 ± 0.0577 (0.154) C:100% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.123 ± 0.480 (1.08) C:87% T:90%	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	0.130 ± 0.538 (1.23)	pCi/L		03/22/22 15:19	
92585972006	EB-2					
EPA 9315	Radium-226	-0.0388 ± 0.0458 (0.167) C:99% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.575 ± 0.414 (0.798) C:88% T:95%	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	0.575 ± 0.460 (0.965)	pCi/L		03/22/22 15:19	
92585972007	PZ-58I					
EPA 9315	Radium-226	0.552 ± 0.182 (0.155) C:101% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.781 ± 0.357 (0.589) C:90% T:87%	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	1.33 ± 0.539 (0.744)	pCi/L		03/22/22 15:19	
92585972008	PZ-59I					
EPA 9315	Radium-226	0.393 ± 0.147 (0.135) C:102% T:NA	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	0.373 ± 0.327 (0.665) C:92% T:92%	pCi/L		03/04/22 15:34	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585972008	PZ-59I					
Total Radium Calculation	Total Radium	0.766 ± 0.474 (0.800)	pCi/L		03/22/22 15:19	
92585972009	PZ-60I					
EPA 9315	Radium-226	0.542 ± 0.180 (0.159)	pCi/L		03/22/22 08:24	
EPA 9320	Radium-228	C:96% T:NA 1.92 ± 0.565 (0.693)	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	C:88% T:87% 2.46 ± 0.745 (0.852)	pCi/L		03/22/22 15:19	
92585972010	PZ-50D					
EPA 9315	Radium-226	0.413 ± 0.167 (0.209)	pCi/L		03/22/22 08:30	
EPA 9320	Radium-228	C:101% T:NA 0.588 ± 0.364 (0.684)	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	C:88% T:84% 1.00 ± 0.531 (0.893)	pCi/L		03/22/22 15:19	
92585972011	PZ-51D					
EPA 9315	Radium-226	0.896 ± 0.241 (0.156)	pCi/L		03/22/22 08:30	
EPA 9320	Radium-228	C:104% T:NA 1.33 ± 0.450 (0.603)	pCi/L		03/04/22 15:34	
Total Radium Calculation	Total Radium	C:88% T:85% 2.23 ± 0.691 (0.759)	pCi/L		03/22/22 15:19	
92585972012	PZ-57I					
EPA 9315	Radium-226	0.117 ± 0.0855 (0.134)	pCi/L		03/22/22 08:30	
		C:99% T:NA				

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585972012	PZ-57I					
EPA 9320	Radium-228	0.112 ± 0.226 (0.501) C:85% T:93%	pCi/L		03/04/22 15:35	
Total Radium Calculation	Total Radium	0.229 ± 0.312 (0.635)	pCi/L		03/22/22 15:19	
92585972013	PZ-63I					
EPA 9315	Radium-226	0.285 ± 0.120 (0.110) C:96% T:NA	pCi/L		03/22/22 08:30	
EPA 9320	Radium-228	0.483 ± 0.285 (0.510) C:86% T:90%	pCi/L		03/04/22 15:35	
Total Radium Calculation	Total Radium	0.768 ± 0.405 (0.620)	pCi/L		03/22/22 15:19	
92585972014	PZ-62I					
EPA 9315	Radium-226	0.312 ± 0.130 (0.133) C:102% T:NA	pCi/L		03/22/22 08:30	
EPA 9320	Radium-228	0.562 ± 0.320 (0.583) C:90% T:92%	pCi/L		03/04/22 15:36	
Total Radium Calculation	Total Radium	0.874 ± 0.450 (0.716)	pCi/L		03/22/22 15:19	
92585972015	FB-3					
EPA 9315	Radium-226	-0.0310 ± 0.0345 (0.144) C:95% T:NA	pCi/L		03/22/22 08:30	
EPA 9320	Radium-228	0.147 ± 0.326 (0.726) C:95% T:90%	pCi/L		03/04/22 18:26	
Total Radium Calculation	Total Radium	0.147 ± 0.361 (0.870)	pCi/L		03/22/22 15:19	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-51S **Lab ID: 92585972001** Collected: 02/02/22 13:56 Received: 02/03/22 10:35 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	0.0266 ± 0.0664 (0.160) C:97% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0997 ± 0.411 (0.975) C:88% T:89%	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0266 ± 0.477 (1.14)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-44 **Lab ID: 92585972002** Collected: 02/02/22 12:23 Received: 02/03/22 10:35 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	0.103 ± 0.0908 (0.165) C:92% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.141 ± 0.392 (0.879) C:88% T:85%	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.244 ± 0.483 (1.04)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-511 **Lab ID: 92585972003** Collected: 02/02/22 16:20 Received: 02/03/22 10:35 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	0.186 ± 0.110 (0.165) C:99% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.806 ± 0.485 (0.902) C:89% T:89%	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.992 ± 0.595 (1.07)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-611 **Lab ID: 92585972004** Collected: 02/02/22 15:42 Received: 02/03/22 10:35 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	0.237 ± 0.117 (0.147) C:102% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.920 ± 0.540 (1.00) C:86% T:90%	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.16 ± 0.657 (1.15)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: FB-2 **Lab ID: 92585972005** Collected: 02/02/22 14:22 Received: 02/03/22 10:35 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	0.00672 ± 0.0577 (0.154) C:100% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.123 ± 0.480 (1.08) C:87% T:90%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.130 ± 0.538 (1.23)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: EB-2 **Lab ID: 92585972006** Collected: 02/02/22 16:18 Received: 02/03/22 10:35 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	-0.0388 ± 0.0458 (0.167) C:99% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.575 ± 0.414 (0.798) C:88% T:95%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.575 ± 0.460 (0.965)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-581 **Lab ID: 92585972007** Collected: 02/03/22 14:13 Received: 02/04/22 16:06 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.552 ± 0.182 (0.155) C:101% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.781 ± 0.357 (0.589) C:90% T:87%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.33 ± 0.539 (0.744)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-591 **Lab ID: 92585972008** Collected: 02/03/22 12:40 Received: 02/04/22 16:06 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	0.393 ± 0.147 (0.135) C:102% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.373 ± 0.327 (0.665) C:92% T:92%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.766 ± 0.474 (0.800)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-601 **Lab ID: 92585972009** Collected: 02/03/22 10:45 Received: 02/04/22 16:06 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	0.542 ± 0.180 (0.159) C:96% T:NA	pCi/L	03/22/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.92 ± 0.565 (0.693) C:88% T:87%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.46 ± 0.745 (0.852)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-50D **Lab ID: 92585972010** Collected: 02/03/22 10:54 Received: 02/04/22 16:06 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	0.413 ± 0.167 (0.209) C:101% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.588 ± 0.364 (0.684) C:88% T:84%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00 ± 0.531 (0.893)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-51D **Lab ID: 92585972011** Collected: 02/03/22 16:16 Received: 02/04/22 16:06 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	0.896 ± 0.241 (0.156) C:104% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.33 ± 0.450 (0.603) C:88% T:85%	pCi/L	03/04/22 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.23 ± 0.691 (0.759)	pCi/L	03/22/22 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-571 **Lab ID: 92585972012** Collected: 02/04/22 08:54 Received: 02/04/22 16:06 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	0.117 ± 0.0855 (0.134) C:99% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.112 ± 0.226 (0.501) C:85% T:93%	pCi/L	03/04/22 15:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.229 ± 0.312 (0.635)	pCi/L	03/22/22 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-631 **Lab ID: 92585972013** Collected: 02/04/22 10:15 Received: 02/04/22 16:06 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	0.285 ± 0.120 (0.110) C:96% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.483 ± 0.285 (0.510) C:86% T:90%	pCi/L	03/04/22 15:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.768 ± 0.405 (0.620)	pCi/L	03/22/22 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: PZ-62I **Lab ID: 92585972014** Collected: 02/04/22 10:10 Received: 02/04/22 16:06 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	0.312 ± 0.130 (0.133) C:102% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.562 ± 0.320 (0.583) C:90% T:92%	pCi/L	03/04/22 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.874 ± 0.450 (0.716)	pCi/L	03/22/22 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

Sample: FB-3 **Lab ID: 92585972015** Collected: 02/03/22 11:10 Received: 02/04/22 16:06 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	-0.0310 ± 0.0345 (0.144) C:95% T:NA	pCi/L	03/22/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.147 ± 0.326 (0.726) C:95% T:90%	pCi/L	03/04/22 18:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.147 ± 0.361 (0.870)	pCi/L	03/22/22 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

QC Batch: 486659 Analysis Method: EPA 9320
 QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 92585972001, 92585972002, 92585972003, 92585972004, 92585972005, 92585972006, 92585972007, 92585972008, 92585972009, 92585972010, 92585972011, 92585972012, 92585972013, 92585972014, 92585972015

METHOD BLANK: 2353495 Matrix: Water
 Associated Lab Samples: 92585972001, 92585972002, 92585972003, 92585972004, 92585972005, 92585972006, 92585972007, 92585972008, 92585972009, 92585972010, 92585972011, 92585972012, 92585972013, 92585972014, 92585972015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.115 ± 0.191 (0.414) C:101% T:93%	pCi/L	03/04/22 12:08	

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 AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

QC Batch: 486605 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585972001, 92585972002, 92585972003, 92585972004, 92585972005, 92585972006, 92585972007, 92585972008, 92585972009, 92585972010, 92585972011, 92585972012, 92585972013, 92585972014, 92585972015

METHOD BLANK: 2353237 Matrix: Water

Associated Lab Samples: 92585972001, 92585972002, 92585972003, 92585972004, 92585972005, 92585972006, 92585972007, 92585972008, 92585972009, 92585972010, 92585972011, 92585972012, 92585972013, 92585972014, 92585972015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00383 ± 0.0488 (0.136) C:99% T:NA	pCi/L	03/22/22 08:24	

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: BRANCH AP-BCD DELIN PIEZO RAD

Pace Project No.: 92585972

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO RAD
 Pace Project No.: 92585972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585972001	PZ-51S	EPA 9315	486605		
92585972002	PZ-44	EPA 9315	486605		
92585972003	PZ-51I	EPA 9315	486605		
92585972004	PZ-61I	EPA 9315	486605		
92585972005	FB-2	EPA 9315	486605		
92585972006	EB-2	EPA 9315	486605		
92585972007	PZ-58I	EPA 9315	486605		
92585972008	PZ-59I	EPA 9315	486605		
92585972009	PZ-60I	EPA 9315	486605		
92585972010	PZ-50D	EPA 9315	486605		
92585972011	PZ-51D	EPA 9315	486605		
92585972012	PZ-57I	EPA 9315	486605		
92585972013	PZ-63I	EPA 9315	486605		
92585972014	PZ-62I	EPA 9315	486605		
92585972015	FB-3	EPA 9315	486605		
92585972001	PZ-51S	EPA 9320	486659		
92585972002	PZ-44	EPA 9320	486659		
92585972003	PZ-51I	EPA 9320	486659		
92585972004	PZ-61I	EPA 9320	486659		
92585972005	FB-2	EPA 9320	486659		
92585972006	EB-2	EPA 9320	486659		
92585972007	PZ-58I	EPA 9320	486659		
92585972008	PZ-59I	EPA 9320	486659		
92585972009	PZ-60I	EPA 9320	486659		
92585972010	PZ-50D	EPA 9320	486659		
92585972011	PZ-51D	EPA 9320	486659		
92585972012	PZ-57I	EPA 9320	486659		
92585972013	PZ-63I	EPA 9320	486659		
92585972014	PZ-62I	EPA 9320	486659		
92585972015	FB-3	EPA 9320	486659		
92585972001	PZ-51S	Total Radium Calculation	492102		
92585972002	PZ-44	Total Radium Calculation	492102		
92585972003	PZ-51I	Total Radium Calculation	492102		
92585972004	PZ-61I	Total Radium Calculation	492102		
92585972005	FB-2	Total Radium Calculation	492102		
92585972006	EB-2	Total Radium Calculation	492102		
92585972007	PZ-58I	Total Radium Calculation	492102		
92585972008	PZ-59I	Total Radium Calculation	492102		
92585972009	PZ-60I	Total Radium Calculation	492102		
92585972010	PZ-50D	Total Radium Calculation	492102		
92585972011	PZ-51D	Total Radium Calculation	492102		
92585972012	PZ-57I	Total Radium Calculation	492102		
92585972013	PZ-63I	Total Radium Calculation	492102		
92585972014	PZ-62I	Total Radium Calculation	492102		
92585972015	FB-3	Total Radium Calculation	492102		

REPORT OF LABORATORY ANALYSIS

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Document Name
Sample Collection User Manual (SCUM)
Document No
4-CA-03-033-Rev.01

Document Review: November 15, 2021
Date: 11/15/21
Issued by: [Name]
Date: [Date]
Issue: [Issue]

Laboratory receiving samples:

Athens Eden Greenwood Hartsfield Raleigh Marietta Atlanta Marietta

Sample Collection Laboratory

(Long Name)

Project:

WO#: 92585979



Container: Commercial Food Juice Milk Other

Country of Origin: USA Foreign Unknown Other

State/Province/County/City:

Packaging Material: Plastic Bag Paper Other

Biological Hazard: Yes No

Temperature: Cold Room Warm Hot

Cooler Temp: Yes No

Temp should be above freezing point? Yes No

Cooler Temp Controlled (°C):

WO#s Regulated (SAR) Yes No

Origin of sample in your possession under the United States (CA, HI, or SC) (check one): Yes No

Get samples and info from a foreign source by mail/air/sea/road? Yes No

Origin of Country/Region?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	1
Sample stored in other cold storage?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	2
How long time in storage (days)?	<input type="checkbox"/> 1-7	<input type="checkbox"/> 8-14	<input type="checkbox"/> 15-30	3
High Temperature Time Regulated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	4
Self used equipment?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	5
Correct for time of day?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	6
Other information (Notes)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	7
Container sealed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	8
Quarantine and/or Sample for analysis?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	9
Sample ready for use (SAR)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	10

Includes OSHA 29 CFR 1910.103 (Lead)? Yes No

Includes OSHA 29 CFR 1910.103 (Lead)? Yes No

High and Country State Province? Yes No

Comments/Remarks (if any):

Client ref: [Name/Address/Phone]

Phone contact: [Name/Phone]

Project Manager: [Name/Phone] Date: [Date]

Project Manager: [Name/Phone] Date: [Date]



CHAIN OF CUSTODY / Analytical Request Document
 Revision: 1.00.1 (05/2014) | www.alameda-county.ca.gov/assessor

Requester Information:
 Name: _____
 Address: _____
 Phone: _____
 Email: _____

Requester Signature: _____ Date: _____

Request Description:
 Sample for: _____

Request Type:
 Routine Expedited Other: _____

Requested Analytical Services:

Service	Fee	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Request Status:
 Pending In Progress Complete

SAMPLE NO	Description of Sample	Date Collected	Collector Name	Collector Signature	Collector Title	Collector Agency	Date Analyzed	Analyst Name	Analyst Signature	Analyst Title	Analyst Agency	Date Reported	Report Title	Report Reference	Remarks
1
...
...
...

John M... 1/20/14



Document Name
 Sample Condition: Open-Borehole (SCLW)
 Government Job
 3-Environmental Dept

Document Revision: November 15, 2025
 Page 2 of 2
 Issuing Authority
 Field Location: Quality Control

Laboratory receiving samples:

Ashburn Eden Greenwood Huntersville Raleigh Weddonsville Atlanta Kernersville

Project Name
 No. 0000000000

Client Name

Project #

WO#: 92585979

Country: Residential Commercial Public Other Other

PR: WFO Due Date: 02/17/22
 CLIENT: GA-08 Power

Delivery Seal Present: Yes No Seal Present: Yes No

Date to last received laboratory contact: 01/17/22

Packing Material: Bubble Wrap Bubble Bag None Other

Biological Tissue Form? Yes No Other

Fastened: No Yes

Cooler Temp: 0-5°C 5-10°C 10-15°C 15-20°C

Temp should be above freezing (10°C)
 Sample out of temp until sample is in cooling process
 No bags

Cooler Temp (corrected °C):

USDA Regulated Soil: Yes (water sample)

Contaminated by water or liquid (see note) - The correct design (G, H, or J) must be used!

Do not pile samples from a single source (e.g., impoundment),
 including those in the same POC, in
 containers for testing

Check-off (Check-off)	Yes	No	Days
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7
Check-off (Check-off)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1

Check-off (Check-off) Yes No

Check-off (Check-off) Yes No

Check-off (Check-off) Yes No

Time Data Required? Yes No

Client to provide material source: Yes No

Person contacted: Yes No

Project Manager (SCLW Review) _____ Date: _____

Project Manager (SCLW Review) _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document
 This form is to be used to document the custody and handling of evidence from the time of collection to the time of analysis.

Case No. _____
 Date of Collection _____
 Date of Analysis _____

Collector's Name _____
 Collector's Title _____
 Collector's Agency _____
 Collector's Address _____
 Collector's Phone _____
 Collector's Email _____
 Collector's Signature _____
 Collector's Date _____

Item #	Description of Item	Quantity	Unit	Container / Packaging	Analysis Test	Chain of Custody	
						Collector	Receiver
1
2
3
4
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6
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19
20
21
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34
35
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49
50

Special Agent in Charge / [Signature] / [Date]

Case No. [Number] / Date [Date]

Page 1 of 1

Quality Control Sample Performance Assessment

Analysis Method: *Method 200.1* | Date: *10/10/2014* | Time: *10:00 AM*

Operator: *[Signature]*

Lab: *100*
 Station: *100*
 Method: *100*

Sample ID	Target Value	Observed Value	Deviation
100-1	100	100	0
100-2	100	100	0
100-3	100	100	0
100-4	100	100	0
100-5	100	100	0

Sample ID	Target Value	Observed Value	Deviation
100-1	100	100	0
100-2	100	100	0
100-3	100	100	0
100-4	100	100	0
100-5	100	100	0

Sample ID	Target Value	Observed Value	Deviation
100-1	100	100	0
100-2	100	100	0
100-3	100	100	0
100-4	100	100	0
100-5	100	100	0

Sample ID	Target Value	Observed Value	Deviation
100-1	100	100	0
100-2	100	100	0
100-3	100	100	0
100-4	100	100	0
100-5	100	100	0

Sample ID	Target Value	Observed Value	Deviation
100-1	100	100	0
100-2	100	100	0
100-3	100	100	0
100-4	100	100	0
100-5	100	100	0

[Handwritten Signature]

Comments:



February 11, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Branch CCR-Ash Pond
Pace Project No.: 92586144

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

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: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92586144001	LR-1 (Surface)	Water	02/03/22 10:47	02/03/22 15:32
92586144002	LR-1 (Mid)	Water	02/03/22 10:52	02/03/22 15:32
92586144003	LR-1 (Bottom)	Water	02/03/22 10:58	02/03/22 15:32
92586144004	LR+8A (Surface)	Water	02/03/22 11:29	02/03/22 15:32
92586144005	LR+9A (Surface)	Water	02/03/22 11:38	02/03/22 15:32
92586144006	LR+8 (Surface)	Water	02/03/22 11:18	02/03/22 15:32
92586144007	LR+8 (Mid)	Water	02/03/22 11:21	02/03/22 15:32
92586144008	LR+8 (Bottom)	Water	02/03/22 11:24	02/03/22 15:32
92586144009	LR+9 (Surface)	Water	02/03/22 11:08	02/03/22 15:32
92586144010	LR+9 (Mid)	Water	02/03/22 11:10	02/03/22 15:32
92586144011	LR+9 (Bottom)	Water	02/03/22 11:12	02/03/22 15:32
92586144012	LR-10 (Surface)	Water	02/03/22 10:48	02/03/22 15:32
92586144013	LR-10 (Mid)	Water	02/03/22 10:52	02/03/22 15:32
92586144014	LR-10 (Bottom)	Water	02/03/22 10:55	02/03/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92586144001	LR-1 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144002	LR-1 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144003	LR-1 (Bottom)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144004	LR+8A (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144005	LR+9A (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144006	LR+8 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144007	LR+8 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144008	LR+8 (Bottom)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144009	LR+9 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144010	LR+9 (Mid)	EPA 6010D	KH	4	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92586144011	LR+9 (Bottom)	EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
92586144012	LR-10 (Surface)	SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92586144013	LR-10 (Mid)	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92586144014	LR-10 (Bottom)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	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
 Pace Project No.: 92586144

Sample: LR-1 (Surface)		Lab ID: 92586144001		Collected: 02/03/22 10:47	Received: 02/03/22 15:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.3	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:06	7440-09-7	
Sodium	4.3	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:06	7440-23-5	
Calcium	5.3	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:06	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:06	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 15:57	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 15:57	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	70.0	mg/L	10.0	1		02/08/22 11:15		
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	1		02/05/22 19:14	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 19:14	16984-48-8	
Sulfate	2.4	mg/L	1.0	1		02/05/22 19:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR-1 (Mid)	Lab ID: 92586144002	Collected: 02/03/22 10:52	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.2	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:10	7440-09-7	
Sodium	4.4	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:10	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:10	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:10	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 16:21	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 16:21	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	68.0	mg/L	10.0	1		02/08/22 11:16		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	3.2	mg/L	1.0	1		02/05/22 19:28	16887-00-6	M1
Fluoride	ND	mg/L	0.10	1		02/05/22 19:28	16984-48-8	M1
Sulfate	2.4	mg/L	1.0	1		02/05/22 19:28	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR-1 (Bottom)	Lab ID: 92586144003	Collected: 02/03/22 10:58		Received: 02/03/22 15:32		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.2	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:30	7440-09-7	
Sodium	4.3	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:30	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:30	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:30	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 16:27	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 16:27	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	67.0	mg/L	10.0	1		02/08/22 13:46		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	3.2	mg/L	1.0	1		02/05/22 20:10	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 20:10	16984-48-8	
Sulfate	2.4	mg/L	1.0	1		02/05/22 20:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Sample: LR+8A (Surface)		Lab ID: 92586144004	Collected: 02/03/22 11:29	Received: 02/03/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.5	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:34	7440-09-7	
Sodium	4.6	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:34	7440-23-5	
Calcium	5.7	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:34	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:34	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 16:33	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 16:33	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	71.0	mg/L	10.0	1		02/08/22 13:46		
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	1		02/05/22 20:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 20:23	16984-48-8	
Sulfate	4.2	mg/L	1.0	1		02/05/22 20:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Sample: LR+9A (Surface)		Lab ID: 92586144005	Collected: 02/03/22 11:38	Received: 02/03/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.7	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:39	7440-09-7	
Sodium	5.0	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:39	7440-23-5	
Calcium	5.6	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:39	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:39	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 16:39	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 16:39	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	62.0	mg/L	10.0	1		02/08/22 13:46		
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	1		02/05/22 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 20:37	16984-48-8	
Sulfate	3.5	mg/L	1.0	1		02/05/22 20:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR+8 (Surface)		Lab ID: 92586144006		Collected: 02/03/22 11:18	Received: 02/03/22 15:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.4	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:53	7440-09-7	
Sodium	4.4	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:53	7440-23-5	
Calcium	4.8	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:53	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:53	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:08	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:08	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	61.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 21:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 21:19	16984-48-8	
Sulfate	2.8	mg/L	1.0	1		02/05/22 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR+8 (Mid)	Lab ID: 92586144007	Collected: 02/03/22 11:21	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	02/07/22 10:42	02/08/22 00:58	7440-09-7	
Sodium	4.8	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:58	7440-23-5	
Calcium	5.3	mg/L	1.0	1	02/07/22 10:42	02/08/22 00:58	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	02/07/22 10:42	02/08/22 00:58	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:14	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:14	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	62.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 21:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 21:33	16984-48-8	
Sulfate	2.8	mg/L	1.0	1		02/05/22 21:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR+8 (Bottom)	Lab ID: 92586144008	Collected: 02/03/22 11:24	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:03	7440-09-7	
Sodium	4.6	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:03	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:03	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:03	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:20	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:20	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 21:47	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 21:47	16984-48-8	
Sulfate	2.8	mg/L	1.0	1		02/05/22 21:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR+9 (Surface)	Lab ID: 92586144009	Collected: 02/03/22 11:08	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:08	7440-09-7	
Sodium	4.8	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:08	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:08	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:08	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:26	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:26	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	63.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 22:01	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 22:01	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		02/05/22 22:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Sample: LR+9 (Mid)		Lab ID: 92586144010	Collected: 02/03/22 11:10	Received: 02/03/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.5	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:13	7440-09-7	
Sodium	4.6	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:13	7440-23-5	
Calcium	4.8	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:13	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:13	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:32	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:32	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	58.0	mg/L	10.0	1		02/08/22 13:47		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	3.9	mg/L	1.0	1		02/05/22 22:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 22:15	16984-48-8	
Sulfate	2.9	mg/L	1.0	1		02/05/22 22:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Sample: LR+9 (Bottom)	Lab ID: 92586144011	Collected: 02/03/22 11:12	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:17	7440-09-7	
Sodium	4.7	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:17	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:17	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:17	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:38	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:38	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	70.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 22:29	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/22 22:29	16984-48-8	
Sulfate	3.1	mg/L	1.0	1		02/05/22 22:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR-10 (Surface)	Lab ID: 92586144012	Collected: 02/03/22 10:48	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:22	7440-09-7	
Sodium	4.9	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:22	7440-23-5	
Calcium	4.7	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:22	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:22	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:44	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:44	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	54.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/05/22 23:11	16887-00-6	M1
Fluoride	ND	mg/L	0.10	1		02/05/22 23:11	16984-48-8	M1
Sulfate	3.0	mg/L	1.0	1		02/05/22 23:11	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR-10 (Mid)	Lab ID: 92586144013	Collected: 02/03/22 10:52	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:27	7440-09-7	
Sodium	5.0	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:27	7440-23-5	
Calcium	4.9	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:27	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:27	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:50	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:50	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	63.0	mg/L	10.0	1		02/08/22 13:47		
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	1		02/06/22 00:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/06/22 00:20	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		02/06/22 00:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Sample: LR-10 (Bottom)	Lab ID: 92586144014	Collected: 02/03/22 10:55	Received: 02/03/22 15:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	02/07/22 10:42	02/08/22 01:32	7440-09-7	
Sodium	4.9	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:32	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/07/22 10:42	02/08/22 01:32	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	02/07/22 10:42	02/08/22 01:32	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/07/22 10:39	02/08/22 18:56	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/07/22 10:39	02/08/22 18:56	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	62.0	mg/L	10.0	1		02/08/22 13:48		
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	1		02/06/22 00:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/06/22 00:34	16984-48-8	
Sulfate	2.9	mg/L	1.0	1		02/06/22 00:34	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

QC Batch:	676394	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014		

METHOD BLANK:	3540275	Matrix:	Water
Associated Lab Samples:	92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/07/22 23:56	
Magnesium	mg/L	ND	0.050	02/07/22 23:56	
Potassium	mg/L	ND	0.20	02/07/22 23:56	
Sodium	mg/L	ND	1.0	02/07/22 23:56	

LABORATORY CONTROL SAMPLE: 3540276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.99J	99	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540277 3540278

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586144002	Result	Spike Conc.	Spike Conc.								
Calcium	mg/L	5.1	1	1	6.2	6.2	107	112	75-125	1	20		
Magnesium	mg/L	2.4	1	1	3.5	3.5	111	114	75-125	1	20		
Potassium	mg/L	2.2	1	1	3.3	3.4	109	113	75-125	1	20		
Sodium	mg/L	4.4	1	1	5.4	5.5	104	112	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

QC Batch: 676363 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014

METHOD BLANK: 3540160 Matrix: Water
 Associated Lab Samples: 92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/08/22 15:45	
Cobalt	mg/L	ND	0.0050	02/08/22 15:45	

LABORATORY CONTROL SAMPLE: 3540161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3540162 3540163

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Boron	mg/L	ND	1	1	1	1.0	1.0	99	99	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.1	0.098	0.10	98	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

QC Batch: 676566

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: 92586144001, 92586144002

METHOD BLANK: 3541419

Matrix: Water

Associated Lab Samples: 92586144001, 92586144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/08/22 11:11	

LABORATORY CONTROL SAMPLE: 3541420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	80-120	

SAMPLE DUPLICATE: 3541421

Parameter	Units	92585920025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	46.0	34	25	D6

SAMPLE DUPLICATE: 3541422

Parameter	Units	92586436013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	103	1	25	

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

QC Batch: 676746 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: 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014

METHOD BLANK: 3541991 Matrix: Water
 Associated Lab Samples: 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011, 92586144012, 92586144013, 92586144014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/08/22 13:45	

LABORATORY CONTROL SAMPLE: 3541992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3541993

Parameter	Units	92586144003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	70.0	4	25	

SAMPLE DUPLICATE: 3541994

Parameter	Units	92586144013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	63.0	66.0	5	25	

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

QC Batch: 676287 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: 92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011

METHOD BLANK: 3539895 Matrix: Water
 Associated Lab Samples: 92586144001, 92586144002, 92586144003, 92586144004, 92586144005, 92586144006, 92586144007, 92586144008, 92586144009, 92586144010, 92586144011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/05/22 15:45	
Fluoride	mg/L	ND	0.10	02/05/22 15:45	
Sulfate	mg/L	ND	1.0	02/05/22 15:45	

LABORATORY CONTROL SAMPLE: 3539896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3539897 3539898

Parameter	Units	92585635001		3539898		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	45.2	50	50	88.4	94.5	86	99	90-110	7	10 M1
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	119	121	90-110	2	10 M1
Sulfate	mg/L	5.8	50	50	63.6	64.8	116	118	90-110	2	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3539899 3539900

Parameter	Units	92586144002		3539900		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	3.2	50	50	63.6	63.2	121	120	90-110	1	10 M1
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	115	115	90-110	0	10 M1
Sulfate	mg/L	2.4	50	50	62.6	62.0	120	119	90-110	1	10 M1

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

QC Batch:	676288	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: 92586144012, 92586144013, 92586144014

METHOD BLANK: 3539901 Matrix: Water
 Associated Lab Samples: 92586144012, 92586144013, 92586144014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/06/22 17:16	
Fluoride	mg/L	ND	0.10	02/06/22 17:16	
Sulfate	mg/L	ND	1.0	02/06/22 17:16	

LABORATORY CONTROL SAMPLE: 3539902

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	2.5	99	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3539903 3539904

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586144012	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.2	50	50	63.7	64.4	119	120	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	113	116	90-110	2	10	M1	
Sulfate	mg/L	3.0	50	50	62.0	62.7	118	119	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3539905 3539906

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586259001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	46.0	50	50	84.0	85.4	76	79	90-110	2	10	M1	
Fluoride	mg/L	9.9	2.5	2.5	11.5	10.9	64	38	90-110	6	10	M1	
Sulfate	mg/L	750	50	50	782	783	64	65	90-110	0	10	M1	

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QUALIFIERS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92586144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92586144001	LR-1 (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144002	LR-1 (Mid)	EPA 3010A	676394	EPA 6010D	676474
92586144003	LR-1 (Bottom)	EPA 3010A	676394	EPA 6010D	676474
92586144004	LR+8A (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144005	LR+9A (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144006	LR+8 (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144007	LR+8 (Mid)	EPA 3010A	676394	EPA 6010D	676474
92586144008	LR+8 (Bottom)	EPA 3010A	676394	EPA 6010D	676474
92586144009	LR+9 (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144010	LR+9 (Mid)	EPA 3010A	676394	EPA 6010D	676474
92586144011	LR+9 (Bottom)	EPA 3010A	676394	EPA 6010D	676474
92586144012	LR-10 (Surface)	EPA 3010A	676394	EPA 6010D	676474
92586144013	LR-10 (Mid)	EPA 3010A	676394	EPA 6010D	676474
92586144014	LR-10 (Bottom)	EPA 3010A	676394	EPA 6010D	676474
92586144001	LR-1 (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144002	LR-1 (Mid)	EPA 3005A	676363	EPA 6020B	676471
92586144003	LR-1 (Bottom)	EPA 3005A	676363	EPA 6020B	676471
92586144004	LR+8A (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144005	LR+9A (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144006	LR+8 (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144007	LR+8 (Mid)	EPA 3005A	676363	EPA 6020B	676471
92586144008	LR+8 (Bottom)	EPA 3005A	676363	EPA 6020B	676471
92586144009	LR+9 (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144010	LR+9 (Mid)	EPA 3005A	676363	EPA 6020B	676471
92586144011	LR+9 (Bottom)	EPA 3005A	676363	EPA 6020B	676471
92586144012	LR-10 (Surface)	EPA 3005A	676363	EPA 6020B	676471
92586144013	LR-10 (Mid)	EPA 3005A	676363	EPA 6020B	676471
92586144014	LR-10 (Bottom)	EPA 3005A	676363	EPA 6020B	676471
92586144001	LR-1 (Surface)	SM 2540C-2015	676566		
92586144002	LR-1 (Mid)	SM 2540C-2015	676566		
92586144003	LR-1 (Bottom)	SM 2540C-2015	676746		
92586144004	LR+8A (Surface)	SM 2540C-2015	676746		
92586144005	LR+9A (Surface)	SM 2540C-2015	676746		
92586144006	LR+8 (Surface)	SM 2540C-2015	676746		
92586144007	LR+8 (Mid)	SM 2540C-2015	676746		
92586144008	LR+8 (Bottom)	SM 2540C-2015	676746		
92586144009	LR+9 (Surface)	SM 2540C-2015	676746		
92586144010	LR+9 (Mid)	SM 2540C-2015	676746		
92586144011	LR+9 (Bottom)	SM 2540C-2015	676746		
92586144012	LR-10 (Surface)	SM 2540C-2015	676746		
92586144013	LR-10 (Mid)	SM 2540C-2015	676746		
92586144014	LR-10 (Bottom)	SM 2540C-2015	676746		
92586144001	LR-1 (Surface)	EPA 300.0 Rev 2.1 1993	676287		
92586144002	LR-1 (Mid)	EPA 300.0 Rev 2.1 1993	676287		
92586144003	LR-1 (Bottom)	EPA 300.0 Rev 2.1 1993	676287		
92586144004	LR+8A (Surface)	EPA 300.0 Rev 2.1 1993	676287		
92586144005	LR+9A (Surface)	EPA 300.0 Rev 2.1 1993	676287		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92586144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92586144006	LR+8 (Surface)	EPA 300.0 Rev 2.1 1993	676287		
92586144007	LR+8 (Mid)	EPA 300.0 Rev 2.1 1993	676287		
92586144008	LR+8 (Bottom)	EPA 300.0 Rev 2.1 1993	676287		
92586144009	LR+9 (Surface)	EPA 300.0 Rev 2.1 1993	676287		
92586144010	LR+9 (Mid)	EPA 300.0 Rev 2.1 1993	676287		
92586144011	LR+9 (Bottom)	EPA 300.0 Rev 2.1 1993	676287		
92586144012	LR-10 (Surface)	EPA 300.0 Rev 2.1 1993	676288		
92586144013	LR-10 (Mid)	EPA 300.0 Rev 2.1 1993	676288		
92586144014	LR-10 (Bottom)	EPA 300.0 Rev 2.1 1993	676288		

REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document with
The District-Courtesy of a LEGAL DISCOVERY / as required by the Corporate Records**

Section A Analytical Chain Information Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]	Section B Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]	Section C Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]
---	---	---

SAMPLE ID	Description	Quantity	COLLECTED		ANALYZED	RESULTS
			DATE	TIME		
1	UPL (Sample)	10	20000	10:52		
2	UPL (Sample)	10	20000	10:58		
3	UPL (Sample)	10	20000	11:24		
4	UPL (Sample)	10	20000	11:58		
5	UPL (Sample)	10	20000	11:18		
6	UPL (Sample)	10	20000	11:21		
7	UPL (Sample)	10	20000	11:24		
8	UPL (Sample)	10	20000	11:58		
9	UPL (Sample)	10	20000	11:18		
10	UPL (Sample)	10	20000	11:21		
11	UPL (Sample)	10	20000	11:24		
12	UPL (Sample)	10	20000	11:58		

LABORATORY INFORMATION
 NO#: 92586144
 ESTABLISHED 1984

Section D Analytical Chain Information Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]	Section E Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]	Section F Analytical Request Information Request to: [Blank] Requested by: [Blank] Requested Date: [Blank]
---	---	---

Signature: [Blank] Date: [Blank] Signature: [Blank] Date: [Blank]

Handwritten signature

CHANDLER-COURTNEY / Analytical Request Document
 The Chain of Custody is a LEGAL DOCUMENT. It must be completed accurately.

Section 1: Analytical Information
 Section 2: Analytical Request Information
 Section 3: Sample Information
 Section 4: Laboratory Information

Client: CHANDLER-COURTNEY
 Requested By: CHANDLER-COURTNEY
 Requested For: CHANDLER-COURTNEY
 Requested On: 11/15/2011
 Requested At: 11/15/2011

Section 2: Analytical Request Information
 Analytical Request: CHANDLER-COURTNEY
 Requested By: CHANDLER-COURTNEY
 Requested For: CHANDLER-COURTNEY
 Requested On: 11/15/2011
 Requested At: 11/15/2011

Section 3: Sample Information
 Sample ID: CHANDLER-COURTNEY
 Sample Description: CHANDLER-COURTNEY
 Sample Quantity: CHANDLER-COURTNEY
 Sample Container: CHANDLER-COURTNEY

Section 4: Laboratory Information
 Laboratory Name: CHANDLER-COURTNEY
 Laboratory Address: CHANDLER-COURTNEY
 Laboratory Phone: CHANDLER-COURTNEY
 Laboratory Fax: CHANDLER-COURTNEY

Sample ID	Sample Description	Sample Quantity	Sample Container	Collection		Sample Temp / Collection	Field Log / Notes	Preservation	Analysis Test	Requester and Title (Printed Name)	Requester Signature
				Date	Time						
1	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
2	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
3	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
4	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
5	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
6	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
7	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
8	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
9	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
10	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
11	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						
12	CHANDLER-COURTNEY	1	1	11/15/2011	11:15						

Signature of Requester: CHANDLER-COURTNEY
 Date: 11/15/2011
 Signature of Laboratory: CHANDLER-COURTNEY
 Date: 11/15/2011

LABORATORY NAME AND SERIAL NO.
 CHANDLER-COURTNEY



Document Name
Sample Condition Upon Receipt (SCUR)
Document No
R-CAR-03-033-Rev 04

Document Revised November 13, 2021
Page 1 of 2
Issuing Authority
Pass Analytica Division Office

Laboratory receiving samples

Ashville Eden Greenwood Huntsville Raleigh Macon/Decatur Atlanta Knoxville

Client Name: XXXXXXXXXX

Client Name: Accordis

Project #

WO#: **92586144**

Container: Fed Ed 200L 500L 1000L Other
 Commercial 100L Other

PR: RF Due Date: 02/10/23
CLIENT: Accordis

Primary Seal Present? Yes No Seal Intact? Yes No

Secondary Seal Present (Sampling Container) Yes No

Sealing Material: Bubble Wrap Bubble Bag None Other

Biological Focus Present? Yes No N/A

Thermometer: None 0-83 0-100 0-150
Type of Ice: Dry Wet None

Cooler Temp: 1.0 Correction Factor: 0.0000000000 Type of Ice: 1.0

Temp should be above freezing to 4°C
 Temperature of sample or media temperature or cooling process not above

Cooler Temp Corrected (°C) 2.0
USDA Registered Lab? Yes No Not a sample
Did samples originate in a covered area within the United States (CA, NY or SC) (check mark)?
 Yes No

Did samples originate from a foreign site (as indicated on the shipping manifest and packing list)? Yes No

Community/State/Agency

Chair 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	<u>passed out</u>
Shim hold time Analytical (472 or 57)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3	
Perk Turn-Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4	
IS-Coverage Request?	<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	
Free Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7	
Compass Included?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8	
Structural Integrity Manifest for Cold Transport?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	9	
Sample Labels Match EDC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10	
- Includes CURS/T and SCUR samples <u>Yes</u>					
Requester in USDA Reg (as shown)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10	
Trap Labels Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11	
Trap Labels Custody Seal Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		

Field Date Requested? Yes No

Lot ID of your media/water

CLIENT HISTORY/COMPLAINTS

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager JAP Review: _____ Date: _____



*Check mark top half of box if pH and/or disinfection is verified and within the acceptance range for preservation samples.

Project #

WO#: 92586144

PR: NP Due Date: 03/18/22
CLIENT: CD-PR-00011

Substrate: TGA, OLF, TDC, OH and GWA, SRA, SRAH (water), DOC, LMG

**Bottom half of box is to list number of bottles

Sample	1	2	3	4	5	6	7	8	9	10	11
100-100 ml Rappin Unpreserved (P) (1)											
100-100 ml Rappin Unpreserved (P) (2)											
100-100 ml Rappin Unpreserved (P) (3)											
100-100 ml Rappin Unpreserved (P) (4)											
100-100 ml Rappin Unpreserved (P) (5)											
100-100 ml Rappin Unpreserved (P) (6)											
100-100 ml Rappin Unpreserved (P) (7)											
100-100 ml Rappin Unpreserved (P) (8)											
100-100 ml Rappin Unpreserved (P) (9)											
100-100 ml Rappin Unpreserved (P) (10)											
100-100 ml Rappin Unpreserved (P) (11)											
100-100 ml Rappin Unpreserved (P) (12)											
100-100 ml Rappin Unpreserved (P) (13)											
100-100 ml Rappin Unpreserved (P) (14)											
100-100 ml Rappin Unpreserved (P) (15)											
100-100 ml Rappin Unpreserved (P) (16)											
100-100 ml Rappin Unpreserved (P) (17)											
100-100 ml Rappin Unpreserved (P) (18)											
100-100 ml Rappin Unpreserved (P) (19)											
100-100 ml Rappin Unpreserved (P) (20)											
100-100 ml Rappin Unpreserved (P) (21)											
100-100 ml Rappin Unpreserved (P) (22)											
100-100 ml Rappin Unpreserved (P) (23)											
100-100 ml Rappin Unpreserved (P) (24)											
100-100 ml Rappin Unpreserved (P) (25)											
100-100 ml Rappin Unpreserved (P) (26)											
100-100 ml Rappin Unpreserved (P) (27)											
100-100 ml Rappin Unpreserved (P) (28)											
100-100 ml Rappin Unpreserved (P) (29)											
100-100 ml Rappin Unpreserved (P) (30)											
100-100 ml Rappin Unpreserved (P) (31)											
100-100 ml Rappin Unpreserved (P) (32)											
100-100 ml Rappin Unpreserved (P) (33)											
100-100 ml Rappin Unpreserved (P) (34)											
100-100 ml Rappin Unpreserved (P) (35)											
100-100 ml Rappin Unpreserved (P) (36)											
100-100 ml Rappin Unpreserved (P) (37)											
100-100 ml Rappin Unpreserved (P) (38)											
100-100 ml Rappin Unpreserved (P) (39)											
100-100 ml Rappin Unpreserved (P) (40)											
100-100 ml Rappin Unpreserved (P) (41)											
100-100 ml Rappin Unpreserved (P) (42)											
100-100 ml Rappin Unpreserved (P) (43)											
100-100 ml Rappin Unpreserved (P) (44)											
100-100 ml Rappin Unpreserved (P) (45)											
100-100 ml Rappin Unpreserved (P) (46)											
100-100 ml Rappin Unpreserved (P) (47)											
100-100 ml Rappin Unpreserved (P) (48)											
100-100 ml Rappin Unpreserved (P) (49)											
100-100 ml Rappin Unpreserved (P) (50)											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy showing between lots for duplicate samples, a copy of this form will be sent to the North Carolina Division of Water Control's Lab Office in a cut off fold, unopened preparation as out of sample integrity concerns.



February 11, 2022

Maiya Parks
Pace Analytical Atlanta

110 Technology Pkwy
Peachtree Corners GA 30092

RE: 92586144

Dear Maiya Parks:

Order No: 2202644

Analytical Environmental Services, Inc. received 14 samples on 2/4/2022 7:35:00 AM for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi
Project Manager

Chain of Custody

MA-31 Charlotte Laboratory



Workorder: 92588144

Mayo Parks
 Pace Analytical Atlanta
 110 Technology Parkway
 Peachtree Corners, GA 30066
 Phone (770) 744-4200
 Email: mayo_parks@paceanalytical.com

Workorder Name: Plant Branch CCR-Ash Pond

Results Requested By: 2/10/2002

Report Number: 14

Contract No:

Requested Analyst:

2202644

AES
 1000 Presidential Dr.
 Atlanta GA 30340
 P.O. 92588144 MP

State of Sample Origin: GA

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Container
1	LR-1 (Surface)	2/10/2002 10:47	92588144001	Water	
2	LR-1 (Mud)	2/10/2002 10:50	92588144002	Water	
3	LR-1 (Bottom)	2/10/2002 10:50	92588144003	Water	
4	LR-1a (Surface)	2/10/2002 11:26	92588144004	Water	
5	LR-1a (Surface)	2/10/2002 11:26	92588144005	Water	
6	LR-8 (Surface)	2/10/2002 11:18	92588144006	Water	
7	LR-8 (Mud)	2/10/2002 11:21	92588144007	Water	
8	LR-8 (Bottom)	2/10/2002 11:24	92588144008	Water	
9	LR-8 (Surface)	2/10/2002 11:08	92588144009	Water	
10	LR-8 (Mud)	2/10/2002 11:10	92588144010	Water	
11	LR-8 (Bottom)	2/10/2002 11:12	92588144011	Water	
12	LR-10 (Surface)	2/10/2002 10:48	92588144012	Water	
13	LR-10 (Mud)	2/10/2002 10:52	92588144013	Water	
14	LR-10 (Bottom)	2/10/2002 10:55	92588144014	Water	
15					
16					
17					

LAB USE ONLY

Analysis (W/L)

Transports	Received By	Date/Time	Received By	Date/Time	Comments
1	Ryan Williams / Price	2/10 0735	W. K. Harris	2/14 7:35	Hoops, soap and bleach CP 2202.645 2202.644
2					
3					

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

Client: Pace Analytical Atlanta	Client Sample ID: 92586144001
Project Name: 92586144	Collection Date: 2/3/2022 10:47:00 AM
Lab ID: 2202644-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	28.8	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.8	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144002
Project Name: 92586144	Collection Date: 2/3/2022 10:52:00 AM
Lab ID: 2202644-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	32.5	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	32.5	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144003
Project Name: 92586144	Collection Date: 2/3/2022 10:58:00 AM
Lab ID: 2202644-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	28.5	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.5	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144004
Project Name: 92586144	Collection Date: 2/3/2022 11:29:00 AM
Lab ID: 2202644-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	29.0	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	29.0	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144005
Project Name: 92586144	Collection Date: 2/3/2022 11:38:00 AM
Lab ID: 2202644-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	27.0	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.0	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144006
Project Name: 92586144	Collection Date: 2/3/2022 11:18:00 AM
Lab ID: 2202644-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	27.6	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.6	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144007
Project Name: 92586144	Collection Date: 2/3/2022 11:21:00 AM
Lab ID: 2202644-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	29.4	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	29.4	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144008
Project Name: 92586144	Collection Date: 2/3/2022 11:24:00 AM
Lab ID: 2202644-008	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	28.4	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.4	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144009
Project Name: 92586144	Collection Date: 2/3/2022 11:08:00 AM
Lab ID: 2202644-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	31.8	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	31.9	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144010
Project Name: 92586144	Collection Date: 2/3/2022 11:10:00 AM
Lab ID: 2202644-010	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	30.0	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	30.0	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144011
Project Name: 92586144	Collection Date: 2/3/2022 11:12:00 AM
Lab ID: 2202644-011	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	28.8	10.0		mg/L	R477225	1	02/10/2022 15:15	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.8	3.00		mg/L	R477225	1	02/10/2022 15:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144012
Project Name: 92586144	Collection Date: 2/3/2022 10:48:00 AM
Lab ID: 2202644-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	28.6	10.0		mg/L	R476848	1	02/07/2022 10:47	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.6	3.00		mg/L	R476848	1	02/07/2022 10:47	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144013
Project Name: 92586144	Collection Date: 2/3/2022 10:52:00 AM
Lab ID: 2202644-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	27.1	10.0		mg/L	R476848	1	02/07/2022 10:47	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.1	3.00		mg/L	R476848	1	02/07/2022 10:47	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: 92586144014
Project Name: 92586144	Collection Date: 2/3/2022 10:55:00 AM
Lab ID: 2202644-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	28.6	10.0		mg/L	R476848	1	02/07/2022 10:47	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.6	3.00		mg/L	R476848	1	02/07/2022 10:47	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



Pace Analytical Atlanta

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Pace Analytical Atlanta AES Work Order Number: 2202644

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 3-12 regarding shipping conditions, temperature, and TAT.

13. Cooler 1 Temperature 1.9 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). CP 2/04/2022

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 16-26 regarding sample containers, COC, and analyses.

27. Comments: I certify that I have completed sections 16-27 (dated initials). TL 2-5-22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 28-30 regarding chemical preservation and pH adjustment.

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

Client: Pace Analytical Atlanta
 Project Name: 92586144
 Workorder: 2202644

ANALYTICAL QC SUMMARY REPORT

BatchID: R476848

Sample ID: LCS-R476848	Client ID:	Units: mg/L	Prep Date:	Run No: 476848							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R476848	Analysis Date: 02/07/2022	Seq No: 11008131							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	126.5	3.00	125.0		101	90	110				
------------------------------	-------	------	-------	--	-----	----	-----	--	--	--	--

Sample ID: 2202295-001ADUP	Client ID:	Units: mg/L	Prep Date:	Run No: 476848							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R476848	Analysis Date: 02/07/2022	Seq No: 11008134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	33.99	3.00						35.04	3.05	30	
------------------------------	-------	------	--	--	--	--	--	-------	------	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Pace Analytical Atlanta
 Project Name: 92586144
 Workorder: 2202644

ANALYTICAL QC SUMMARY REPORT

BatchID: R477225

Sample ID: LCS-R477225	Client ID:	Units: mg/L	Prep Date:	Run No: 477225							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R477225	Analysis Date: 02/10/2022	Seq No: 11020756							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 125.2 3.00 125.0 100 90 110

Sample ID: 2202A24-006EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 477225							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R477225	Analysis Date: 02/10/2022	Seq No: 11020764							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 105.2 3.00 112.7 6.86 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

End of Report



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

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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 6010D	DRB	1
92563226005	BRGWC-25I	EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
92563226006	BRGWC-27I	EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
92563226007	BRGWC-29I	EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 6010D	DRB	1

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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	

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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	

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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
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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	
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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		
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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 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							
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
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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	
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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	0.00078	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	
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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		
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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		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
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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
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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	
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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	0.00078	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	
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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		
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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
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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	
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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	0.00078	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	
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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		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	3.4	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
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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	
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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	0.00078	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	
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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		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	3.6	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	

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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			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 19:34	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
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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	
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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		
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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-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
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	

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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	Max RPD	RPD	Qual
		92563226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD 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					MS % Rec	MSD % Rec
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50	51.0	59.9	93	110	80-120	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					MS % Rec
Alkalinity, Total as CaCO3	mg/L	25.0	50	50	50	72.9	73.7	96	97	80-120	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					MSD % 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	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							% Rec	% Rec
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	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							% Rec	% Rec
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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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		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	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		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	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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	ND	50	50	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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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		3418963		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.058	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418964 3418965

Parameter	Units	92564312001		3418965		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.052	2.5	1.8	1.8	69	68	90-110	0	10 M1	

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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		MS		MSD		% Rec		Max		Qual	
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD
Nitrogen, NO2 plus NO3	mg/L	43.3	2.5	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		MS		MSD		% Rec		Max		Qual	
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.5	2.3	2.3	92	93	90-110	1	10	

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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

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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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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 3
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GIA POWER

Project #: **WO#: 92563226**

Courier: Fed Ex UPS USPS Other: Janet
 Commercial Pace Other:



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 7/25/21/psd

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: FA2230 Type of Ice: Dry Other 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 (No, 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

Yes No

	Chain of Custody			Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Brush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 <u>10 Day</u>
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>			
Headspace in VOA Vials (> 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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:
Face Carolina's 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/ROLS (water) DOC, LUH

**Bottom half of box is to list number of bottles

Project # **WO# : 92563226**

PH: N/A

Due Date: 10/07/21

CLIENT: GR-GR Power

Serial	Material	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 ml, Plastic Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP3U-150 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP5U-500 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP1U-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP6U-125 ml, Plastic HD504 (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP7U-150 ml, plastic HD503 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP4Q-125 ml, Plastic, 2N Acetate & NaOH (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP6Q-125 ml, Plastic NaOH (pH > 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
Wet/dry-which mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AD10U-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD10U-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD30U-250 ml, Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD5U-1 liter Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD3U-250 ml, Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD14U(100)40-250 ml, Amber HD(10) (N/A)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BD00U-40 ml, VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
W00U-40 ml, VOA NaOH503 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
W00U-40 ml, VOA (dry) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BD00U-40 ml, VOA HDP04 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOA4 (3 vials per bag) 5015 kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V10U (3 vials per bag) VHA/Gas kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SP01-125 ml, Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
SP01-250 ml, Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
BP1U-250 ml, Plastic (N/A)(D-1, D-2)		/	/	/	/	/	/	/	/	/	/	/	/
AD00U-100 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
W00U-20 ml, Scintillation vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BD00U-40 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

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 Division Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt
 Client Name: George & Paver Project #:

Cooler: Commercial Fed Ex UPS USPS Client
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: PT 9/28/21

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: If Gun ID: 230 Type of Ice: Clear Other None

Biological Stabbin Frozen?
 Yes No N/A

Cooler Temp: 3.4 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): 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.	
Batch 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 (>3-6mm)?	<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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: _____ Date/Time: _____

Project Manager SCUR 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: YOA, Coliform, TOC, Oil and Grease, BRQ/8015 (water) DOC, LHMg

**Bottom half of box is to list number of bottles

Sample	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml Plastic Unpreserved (N/A) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-250 ml Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-500 ml Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic HClSO4 (pH < 2) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-250 ml plastic HClSO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic 2N Acetic & HClO4 (pH)	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic HClO4 (pH < 2) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-500 ml plastic HClO4 (pH < 2) Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
AC200-1 liter Amber Unpreserved (N/A) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-1 liter Amber (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-250 ml Amber Unpreserved (N/A) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-1 liter Amber HClO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-250 ml Amber HClO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-500ml-250 ml Amber HClO4 (N/A) (C1)	/	/	/	/	/	/	/	/	/	/	/	/
DC000-40 ml YOA (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
W000-40 ml YOA HClO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
W000-40 ml YOA (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
DC000-40 ml YOA HClO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
W000 (B) vials per 100-1000 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
W000 (B) vials per 100-1000 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-125 ml Sample Plastic (N/A - 144)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-250 ml Sample Plastic (N/A - 144)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-500 ml Sample Plastic (N/A - 144)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-1 liter Plastic (N/A - 144)	/	/	/	/	/	/	/	/	/	/	/	/
BP50-125 ml Plastic (N/A - 144)	/	/	/	/	/	/	/	/	/	/	/	/
AC200-100 ml Amber Unpreserved vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
W000-20 ml Simultaneous vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
DC000-40 ml Amber Unpreserved vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	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).



October 29, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD BACKGROUND RADS
Pace Project No.: 92562847

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 22, 2021 and September 23, 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 - Greensburg

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 BACKGROUND RADS
Pace Project No.: 92562847

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

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SAMPLE SUMMARY

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562847001	BRGWA-12S	Water	09/21/21 10:45	09/22/21 17:08
92562847002	BRGWA-12I	Water	09/21/21 13:50	09/22/21 17:08
92562847003	BRGWA-23S	Water	09/22/21 10:10	09/23/21 10:47

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92562847001	BRGWA-12S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562847002	BRGWA-12I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562847003	BRGWA-23S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562847001	BRGWA-12S					
EPA 9315	Radium-226	0.409 ± 0.241 (0.367)	pCi/L		10/08/21 08:02	
EPA 9320	Radium-228	C:96% T:NA 0.0585 ± 0.397 (0.915)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:61% T:84% 0.468 ± 0.638 (1.28)	pCi/L		10/20/21 17:19	
92562847002	BRGWA-12I					
EPA 9315	Radium-226	0.698 ± 0.296 (0.344)	pCi/L		10/08/21 08:02	
EPA 9320	Radium-228	C:98% T:NA 0.631 ± 0.444 (0.850)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:59% T:91% 1.33 ± 0.740 (1.19)	pCi/L		10/20/21 17:19	
92562847003	BRGWA-23S					
EPA 9315	Radium-226	0.813 ± 0.319 (0.347)	pCi/L		10/08/21 08:02	
EPA 9320	Radium-228	C:100% T:NA 0.583 ± 0.475 (0.944)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:61% T:85% 1.40 ± 0.794 (1.29)	pCi/L		10/20/21 17:19	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-12S Lab ID: 92562847001 Collected: 09/21/21 10:45 Received: 09/22/21 17:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.409 ± 0.241 (0.367) C:96% T:NA	pCi/L	10/08/21 08:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0585 ± 0.397 (0.915) C:61% T:84%	pCi/L	10/07/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.468 ± 0.638 (1.28)	pCi/L	10/20/21 17:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-12I Lab ID: 92562847002 Collected: 09/21/21 13:50 Received: 09/22/21 17:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.698 ± 0.296 (0.344) C:98% T:NA	pCi/L	10/08/21 08:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.631 ± 0.444 (0.850) C:59% T:91%	pCi/L	10/07/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.33 ± 0.740 (1.19)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-23S Lab ID: 92562847003 Collected: 09/22/21 10:10 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.813 ± 0.319 (0.347) C:100% T:NA	pCi/L	10/08/21 08:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.583 ± 0.475 (0.944) C:61% T:85%	pCi/L	10/07/21 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.794 (1.29)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92562847001, 92562847002, 92562847003

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples: 92562847001, 92562847002, 92562847003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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 AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

QC Batch: 466264	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92562847001, 92562847002, 92562847003

METHOD BLANK: 2251638 Matrix: Water

Associated Lab Samples: 92562847001, 92562847002, 92562847003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD BACKGROUND RADS

Pace Project No.: 92562847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562847001	BRGWA-12S	EPA 9315	466264		
92562847002	BRGWA-12I	EPA 9315	466264		
92562847003	BRGWA-23S	EPA 9315	466264		
92562847001	BRGWA-12S	EPA 9320	466410		
92562847002	BRGWA-12I	EPA 9320	466410		
92562847003	BRGWA-23S	EPA 9320	466410		
92562847001	BRGWA-12S	Total Radium Calculation	469110		
92562847002	BRGWA-12I	Total Radium Calculation	469110		
92562847003	BRGWA-23S	Total Radium Calculation	469110		

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 28th, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt:

Client Name:

Project #:

WO#: 92562847



Courier: Fed Ex UPS USPS Other Commercial Pace

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Contents: 9/23/21

Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer: Wet Dry None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 1.8 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): 1.8
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 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	
Disclosed analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:	W		
Headspace in YDA Vials (>5-6mL)?	<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 SCUR Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
I-CAR-CS-053-Rev.07

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolina's 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, DRG/BSIS (water) DOC, UAG
**Bottom half of box is to list number of bottles

Project #

WO# : 92562847

PR: NMG Due Date: 10/13/21
CLIENT: GR-OR Power

Bottle #	Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
1	BP40-125 ml, Plastic	Unpreserved (N/A) (C-1)	/				
2	BP30-250 ml, Plastic	Unpreserved (N/A)	/				
3	BP30-500 ml, Plastic	Unpreserved (N/A)	/				
4	BP10-1 liter Plastic	Unpreserved (N/A)	/				
5	BP40-125 ml, Plastic	HClO4 (pH < 2) (C-1)	/				
6	BP40-125 ml, Plastic	HNO3 (pH < 2) (C-1)	/				
7	BP40-125 ml, Plastic	H2SO4 (pH < 2) (C-1)	/				
8	1000-ml wide-mouthed Glass jar	Unpreserved	/				
9	AS100-1 liter Amber	Unpreserved (N/A) (C-1)	/				
10	AS100-1 liter Amber	HCl (pH < 2)	/				
11	AS100-250 ml, Amber	Unpreserved (N/A) (C-1)	/				
12	AS100-1 liter Amber	H2SO4 (pH < 2)	/				
13	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
14	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
15	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
16	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
17	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
18	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
19	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
20	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
21	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
22	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
23	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
24	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
25	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
26	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
27	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
28	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
29	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
30	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
31	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
32	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
33	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
34	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
35	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
36	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
37	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
38	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
39	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
40	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
41	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
42	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
43	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
44	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
45	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
46	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
47	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
48	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
49	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
50	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
51	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
52	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
53	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
54	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
55	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
56	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
57	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
58	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
59	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
60	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
61	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
62	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
63	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
64	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
65	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
66	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
67	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
68	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
69	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
70	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
71	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
72	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
73	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
74	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
75	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
76	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
77	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
78	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
79	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
80	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
81	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
82	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
83	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
84	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
85	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
86	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
87	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
88	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
89	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
90	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
91	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
92	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
93	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
94	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
95	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
96	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
97	AS100-250 ml, Amber	HClO4 (pH < 2)	/				
98	AS100-250 ml, Amber	HNO3 (pH < 2)	/				
99	AS100-250 ml, Amber	H2SO4 (pH < 2)	/				
100	AS100-250 ml, Amber	HClO4 (pH < 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 comp-sinc samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers)



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

Page: 1 of 1

Section A: Request (Final Submission)			Section B: Analytical Request Information			Section C: Analytical Information		
Request Type	Request From	Request To	Request For	Request From	Request To	Request For	Request From	Request To
Request Date	Request Location	Request Contact	Request Description	Request Method	Request Instrument	Request Reference	Request Agency	Request Location
Request Type: [Blank]	Request From: [Blank]	Request To: [Blank]	Request For: [Blank]	Request From: [Blank]	Request To: [Blank]	Request For: [Blank]	Request Agency: [Blank]	Request Location: [Blank]
Request Date: [Blank]	Request Location: [Blank]	Request Contact: [Blank]	Request Description: [Blank]	Request Method: [Blank]	Request Instrument: [Blank]	Request Reference: [Blank]	Request Agency: [Blank]	Request Location: [Blank]

ITEM #	SAMPLE ID	ANALYSIS CODE	SAMPLE TYPE	DATE	TIME	ANALYSIS TEST		ANALYSIS METHOD	ANALYSIS INSTRUMENT	ANALYSIS LOCATION	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	ANALYSIS SIGNATURE	ANALYSIS COMMENTS
						ANALYSIS TEST	ANALYSIS METHOD								
1	SAMPLE-10	ANALYSIS CODE	SAMPLE TYPE	DATE	TIME	ANALYSIS TEST	ANALYSIS METHOD	ANALYSIS METHOD	ANALYSIS INSTRUMENT	ANALYSIS LOCATION	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	ANALYSIS SIGNATURE	ANALYSIS COMMENTS
2	SAMPLE-10	ANALYSIS CODE	SAMPLE TYPE	DATE	TIME	ANALYSIS TEST	ANALYSIS METHOD	ANALYSIS METHOD	ANALYSIS INSTRUMENT	ANALYSIS LOCATION	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	ANALYSIS SIGNATURE	ANALYSIS COMMENTS
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Request Type: [Blank]

Request From: [Blank]

Request To: [Blank]

Request For: [Blank]

Request Description: [Blank]

Request Method: [Blank]

Request Instrument: [Blank]

Request Reference: [Blank]

Request Agency: [Blank]

Request Location: [Blank]

Request Date: [Blank]

Request Contact: [Blank]

Request From: [Blank]

Request To: [Blank]

Request For: [Blank]

Request Description: [Blank]

Request Method: [Blank]

Request Instrument: [Blank]

Request Reference: [Blank]

Request Agency: [Blank]

Request Location: [Blank]

Request Date: [Blank]

Request Contact: [Blank]

Request From: [Blank]



Document Name
Sample Collection Logon Assign (MCM)
Document No
T-CAR-02-01 Rev 07

Document Approval (October 18, 2020)
Page 2 of 2
Issued & Approved
Pace Analytical Quality Office

Laboratory receiving samples:

Ashville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Sample Location or
User Record

Other Name

Project #

Counter: Field Lab Other Field
 Commercial Home Other

Biological Seal Present? Yes No Seal Broken? Yes No

Packing Material: Bubble Wrap Bubble Bag Paper Other

Temperature: Storage 37.5 Time of Day: 1:30 Day Night Other

Cooler Temp: 1.8 Correction Factor: Addition (K): 0.0

Cooler Temp Corrected (C)

USDA Regulated Soil? Yes No (sample)

Do samples originate in a quarantine zone area within the United States (USDA only)? Yes No

Collection Point Learning Corrected 0.0

Biological Seal Present

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temperature samples or in cooling process
has begun

Do samples originate from a foreign source (internationally)?

Asking about the source? Yes No

Comments by Quality Office

Chain of Custody Present? Yes No N/A

Samples Arrived within Hold Time? Yes No N/A

Meat Hold Time Analysis (12 hr)? Yes No N/A

Each Unit A Detailed Paper Completed? Yes No N/A

Labels and Logbook? Yes No N/A

Correct Containers Used? Yes No N/A

Freezer Sealed properly? Yes No N/A

Complaints on file? Yes No N/A

Insulation Absent (12 hr) and 12 hr? Yes No N/A

Sample Labels Match DOC? Yes No N/A

Includes Chain of Custody Analysis W T

Available in Y201 Year 123 Form? Yes No N/A

Top Bag Sealed? Yes No N/A

Top Bag Sealed (each Present)? Yes No N/A

Comments/Insured/Outstanding

Label Date Requiring? Yes No

USDA Regulated Comments

USDA Form 1600/1610/1620/1630/1640/1650/1660/1670/1680/1690/1700/1710/1720/1730/1740/1750/1760/1770/1780/1790/1800/1810/1820/1830/1840/1850/1860/1870/1880/1890/1900/1910/1920/1930/1940/1950/1960/1970/1980/1990/2000

Person contacted:

Date/Time:

Project Manager SCUB? Equipe

Date

Project Manager SQ? Barbara

Date



* Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation sample.

† Sample VOA, Coliform, TCC, OR and Growth, DRB/ROTS, Lead, GOC, Turb

* Bottom half of box is to list number of bottles

Project #

Blank box for Project #

Sample	100 mL - 120 mL, Plastic, Unpreserved (pH) (1)	100 mL - 120 mL, Plastic, Unpreserved (pH) (2)	100 mL - 120 mL, Plastic, Unpreserved (pH) (3)	100 mL - 120 mL, Plastic, Unpreserved (pH) (4)	100 mL - 120 mL, Plastic, Unpreserved (pH) (5)	100 mL - 120 mL, Plastic, Unpreserved (pH) (6)	100 mL - 120 mL, Plastic, Unpreserved (pH) (7)	100 mL - 120 mL, Plastic, Unpreserved (pH) (8)	100 mL - 120 mL, Plastic, Unpreserved (pH) (9)	100 mL - 120 mL, Plastic, Unpreserved (pH) (10)	100 mL - 120 mL, Plastic, Unpreserved (pH) (11)	100 mL - 120 mL, Plastic, Unpreserved (pH) (12)	100 mL - 120 mL, Plastic, Unpreserved (pH) (13)	100 mL - 120 mL, Plastic, Unpreserved (pH) (14)	100 mL - 120 mL, Plastic, Unpreserved (pH) (15)	100 mL - 120 mL, Plastic, Unpreserved (pH) (16)	100 mL - 120 mL, Plastic, Unpreserved (pH) (17)	100 mL - 120 mL, Plastic, Unpreserved (pH) (18)	100 mL - 120 mL, Plastic, Unpreserved (pH) (19)	100 mL - 120 mL, Plastic, Unpreserved (pH) (20)
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH adjustment	Date preserved for adjusted	Change preservation adjusted	Amount of Preservatives added	LOCIP

NOTE: Whenever there are also samples in this log for which sampling (unpreserved) samples, a copy of this form will be sent to the Lead Laboratory, 24, 48, and 72 hours after OFFIC (or Out of Office) to permit preservation (out of sample) to be conducted.

10/1/2011

CHAIN OF CUSTODY / Analytical Request Document
 This form is to be used in all cases where evidence is analyzed in a laboratory.

Page 1 of 2

Section 1 Requester's Name: [Blank] Requester's Title: [Blank] Requester's Agency: [Blank] Requester's Address: [Blank] Requester's Phone: [Blank] Requester's Email: [Blank]	Section 2 Date of Request: [Blank] Date of Receipt: [Blank] Date of Analysis: [Blank] Date of Release: [Blank]	Section 3 Requester's Signature: [Blank] Requester's Title: [Blank]	Section 4 Laboratory Name: [Blank] Laboratory Address: [Blank] Laboratory Phone: [Blank] Laboratory Email: [Blank]
---	--	---	--

Item #	Description of Item	Quantity	Unit	Material	Color	Shape	Size	Weight	Volume	Temperature	Packaging	Remarks	Signature	Date
1	SAMPLE ID													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Sub: [Handwritten Signature] / [Handwritten Name] / [Handwritten Address] / [Handwritten Phone] / [Handwritten Email] / [Handwritten Date]

Quality Control Sample Performance Assessment

Assessment of...

Assessment of...
 100%
 100%
 100%
 100%

Assessment of...

Sample No.	Specimen Description	Method	Result
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Sample No.	Specimen Description	Method	Result
21
22
23
24
25
26
27
28
29
30

Sample No.	Specimen Description	Method	Result
31
32
33
34
35
36
37
38
39
40

Sample No.	Specimen Description	Method	Result
41
42
43
44
45
46
47
48
49
50

Sample No.	Specimen Description	Method	Result
51
52
53
54
55
56
57
58
59
60

Assessment of...

Assessment of...

Assessment of...

Assessment of...

Assessment of...

Quality Control Sample Performance Assessment

Analytical Method Manual Chapter 40: Pacific Northwest National Laboratory

Date:
 Sample ID:
 Operator:
 Analyst:

Sample Description	Analysis Results
Sample Name: [Blank]	Value: [Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]

Sample Description	Analysis Results
Sample Name: [Blank]	Value: [Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]

Sample Description	Analysis Results
Sample Name: [Blank]	Value: [Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]

Sample Description	Analysis Results
Sample Name: [Blank]	Value: [Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]

Sample Description	Analysis Results
Sample Name: [Blank]	Value: [Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]
[Blank]	[Blank]

Quality Control Sample Performance Assessment

[Handwritten Signature]



October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD BACKGROUND
Pace Project No.: 92562855

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 22, 2021 and September 23, 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 BACKGROUND

Pace Project No.: 92562855

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

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SAMPLE SUMMARY

Project: BRANCH AP-BCD BACKGROUND
Pace Project No.: 92562855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562855001	BRGWA-12S	Water	09/21/21 10:45	09/22/21 17:08
92562855002	BRGWA-12I	Water	09/21/21 13:50	09/22/21 17:08
92562855003	BRGWA-23S	Water	09/22/21 10:10	09/23/21 10:47

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92562855001	BRGWA-12S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562855002	BRGWA-12I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562855003	BRGWA-23S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		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

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562855001	BRGWA-12S					
	Performed by	CUSTOMER			09/23/21 09:40	
	pH	5.87	Std. Units		09/23/21 09:40	
EPA 6010D	Calcium	5.4	mg/L	1.0	09/30/21 20:24	
EPA 6020B	Barium	0.060	mg/L	0.0050	10/01/21 14:14	
EPA 6020B	Chromium	0.0024J	mg/L	0.0050	09/30/21 19:18	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:25	B
SM 2540C-2011	Total Dissolved Solids	56.0	mg/L	10.0	09/27/21 10:20	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/24/21 18:31	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	09/24/21 18:31	
92562855002	BRGWA-12I					
	Performed by	CUSTOMER			09/23/21 09:40	
	pH	6.53	Std. Units		09/23/21 09:40	
EPA 6010D	Calcium	16.4	mg/L	1.0	09/30/21 20:29	
EPA 6020B	Antimony	0.017	mg/L	0.0030	10/01/21 14:20	
EPA 6020B	Barium	0.074	mg/L	0.0050	10/01/21 14:20	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	09/30/21 19:35	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/30/21 19:35	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:36	B
SM 2540C-2011	Total Dissolved Solids	117	mg/L	10.0	09/27/21 10:20	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	09/24/21 19:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	09/24/21 19:19	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	09/24/21 19:19	
92562855003	BRGWA-23S					
	Performed by	CUSTOMER			09/23/21 13:00	
	pH	5.72	Std. Units		09/23/21 13:00	
EPA 6010D	Calcium	9.2	mg/L	1.0	09/30/21 20:33	
EPA 6020B	Barium	0.070	mg/L	0.0050	10/01/21 14:37	
EPA 6020B	Boron	0.047	mg/L	0.040	10/01/21 14:37	
EPA 6020B	Chromium	0.0026J	mg/L	0.0050	10/01/21 14:37	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	10/01/21 14:37	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	10/01/21 14:37	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:54	B
SM 2540C-2011	Total Dissolved Solids	128	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/24/21 20:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	09/24/21 20:38	
EPA 300.0 Rev 2.1 1993	Sulfate	34.6	mg/L	1.0	09/24/21 20:38	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

Sample: BRGWA-12S **Lab ID: 92562855001** Collected: 09/21/21 10:45 Received: 09/22/21 17:08 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

Performed by	CUSTOMER				1		09/23/21 09:40		
pH	5.87	Std. Units			1		09/23/21 09:40		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	5.4	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 20:24	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 19:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:18	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 19:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 19:18	7440-43-9	
Chromium	0.0024J	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 19:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 19:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 19:18	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:25	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	56.0	mg/L	10.0	10.0	1		09/27/21 10:20		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	3.5	mg/L	1.0	0.60	1		09/24/21 18:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 18:31	16984-48-8	
Sulfate	0.51J	mg/L	1.0	0.50	1		09/24/21 18:31	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

Sample: BRGWA-12I **Lab ID: 92562855002** Collected: 09/21/21 13:50 Received: 09/22/21 17:08 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

Performed by	CUSTOMER				1		09/23/21 09:40		
pH	6.53	Std. Units			1		09/23/21 09:40		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	16.4	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 20:29	7440-70-2	
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6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	0.017	mg/L	0.0030	0.00078	1	09/30/21 10:25	10/01/21 14:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:35	7440-38-2	
Barium	0.074	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 19:35	7440-43-9	
Chromium	0.0023J	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 19:35	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 19:35	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:36	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	117	mg/L	10.0	10.0	1		09/27/21 10:20		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	2.1	mg/L	1.0	0.60	1		09/24/21 19:19	16887-00-6	
Fluoride	0.071J	mg/L	0.10	0.050	1		09/24/21 19:19	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		09/24/21 19:19	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92562855

Sample: BRGWA-23S		Lab ID: 92562855003		Collected: 09/22/21 10:10		Received: 09/23/21 10:47		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		09/23/21 13:00		
pH	5.72	Std. Units			1		09/23/21 13:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.2	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 20:33	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	09/30/21 10:25	10/01/21 14:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	10/01/21 14:37	7440-38-2	
Barium	0.070	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	10/01/21 14:37	7440-41-7	
Boron	0.047	mg/L	0.040	0.0086	1	09/30/21 10:25	10/01/21 14:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	10/01/21 14:37	7440-43-9	
Chromium	0.0026J	mg/L	0.0050	0.0011	1	09/30/21 10:25	10/01/21 14:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	10/01/21 14:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	10/01/21 14:37	7439-92-1	
Lithium	0.0074J	mg/L	0.030	0.00073	1	09/30/21 10:25	10/01/21 14:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	10/01/21 14:37	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	09/30/21 10:25	10/01/21 14:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	10/01/21 14:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:54	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	128	mg/L	10.0	10.0	1		09/28/21 10:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.8	mg/L	1.0	0.60	1		09/24/21 20:38	16887-00-6	
Fluoride	0.069J	mg/L	0.10	0.050	1		09/24/21 20:38	16984-48-8	
Sulfate	34.6	mg/L	1.0	0.50	1		09/24/21 20:38	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND
 Pace Project No.: 92562855

QC Batch: 650016 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92562855001, 92562855002, 92562855003

METHOD BLANK: 3409429 Matrix: Water
 Associated Lab Samples: 92562855001, 92562855002, 92562855003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/30/21 18:01	

LABORATORY CONTROL SAMPLE: 3409430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409431 3409432

Parameter	Units	92561637001		3409432		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	72.7	1	72.0	73.0	-71	25	75-125	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

QC Batch:	650022	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92562855001, 92562855002, 92562855003

METHOD BLANK: 3409457 Matrix: Water

Associated Lab Samples: 92562855001, 92562855002, 92562855003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/30/21 18:26	
Arsenic	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Barium	mg/L	ND	0.0050	0.00067	09/30/21 18:26	
Beryllium	mg/L	ND	0.00050	0.000054	09/30/21 18:26	
Boron	mg/L	ND	0.040	0.0086	09/30/21 18:26	
Cadmium	mg/L	ND	0.00050	0.00011	09/30/21 18:26	
Chromium	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Cobalt	mg/L	ND	0.0050	0.00039	09/30/21 18:26	
Lead	mg/L	ND	0.0010	0.00089	09/30/21 18:26	
Lithium	mg/L	ND	0.030	0.00073	09/30/21 18:26	
Molybdenum	mg/L	ND	0.010	0.00074	09/30/21 18:26	
Selenium	mg/L	ND	0.0050	0.0014	09/30/21 18:26	
Thallium	mg/L	ND	0.0010	0.00018	09/30/21 18:26	

LABORATORY CONTROL SAMPLE: 3409458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.11	111	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	111	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409459 3409460

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20
Arsenic	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

Parameter	Units	3409459		3409460		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.092	0.1	0.1	0.23	0.24	138	152	75-125	6	20	M1	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.0	108	104	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	99	103	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

QC Batch:	650957	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92562855001, 92562855002, 92562855003

METHOD BLANK: 3413779 Matrix: Water
 Associated Lab Samples: 92562855001, 92562855002, 92562855003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00011J	0.00020	0.000078	10/06/21 12:20	

LABORATORY CONTROL SAMPLE: 3413780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413781 3413782

Parameter	Units	92562855001		3413782		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00010J	0.0025	0.0024	0.0023	92	89	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: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

QC Batch: 649295

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: 92562855001, 92562855002

METHOD BLANK: 3405734

Matrix: Water

Associated Lab Samples: 92562855001, 92562855002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/27/21 10:19	

LABORATORY CONTROL SAMPLE: 3405735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3405736

Parameter	Units	92562283002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	174	168	4	10	

SAMPLE DUPLICATE: 3405737

Parameter	Units	92563313004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	985	1080	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

QC Batch: 649491

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: 92562855003

METHOD BLANK: 3406451

Matrix: Water

Associated Lab Samples: 92562855003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/21 10:55	

LABORATORY CONTROL SAMPLE: 3406452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3406453

Parameter	Units	92563313026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	527	536	2	10	

SAMPLE DUPLICATE: 3406454

Parameter	Units	92562857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	86.0	80.0	7	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD BACKGROUND

Pace Project No.: 92562855

QC Batch:	649204	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: 92562855001, 92562855002, 92562855003

METHOD BLANK: 3405091 Matrix: Water
 Associated Lab Samples: 92562855001, 92562855002, 92562855003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/24/21 17:59	
Fluoride	mg/L	ND	0.10	0.050	09/24/21 17:59	
Sulfate	mg/L	ND	1.0	0.50	09/24/21 17:59	

LABORATORY CONTROL SAMPLE: 3405092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.5	91	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405095 3405096

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562974002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.7	50	50	49.7	49.4	94	93	90-110	1	10		
Fluoride	mg/L	0.068J	2.5	2.5	2.7	2.6	103	102	90-110	1	10		
Sulfate	mg/L	94.6	50	50	140	141	90	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405233 3405234

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562855001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.5	50	50	48.5	50.6	90	94	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	5	10		
Sulfate	mg/L	0.51J	50	50	48.8	51.3	97	102	90-110	5	10		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRANCH AP-BCD BACKGROUND
Pace Project No.: 92562855

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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 BACKGROUND
 Pace Project No.: 92562855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562855001	BRGWA-12S				
92562855002	BRGWA-12I				
92562855003	BRGWA-23S				
92562855001	BRGWA-12S	EPA 3010A	650016	EPA 6010D	650179
92562855002	BRGWA-12I	EPA 3010A	650016	EPA 6010D	650179
92562855003	BRGWA-23S	EPA 3010A	650016	EPA 6010D	650179
92562855001	BRGWA-12S	EPA 3005A	650022	EPA 6020B	650181
92562855002	BRGWA-12I	EPA 3005A	650022	EPA 6020B	650181
92562855003	BRGWA-23S	EPA 3005A	650022	EPA 6020B	650181
92562855001	BRGWA-12S	EPA 7470A	650957	EPA 7470A	651107
92562855002	BRGWA-12I	EPA 7470A	650957	EPA 7470A	651107
92562855003	BRGWA-23S	EPA 7470A	650957	EPA 7470A	651107
92562855001	BRGWA-12S	SM 2540C-2011	649295		
92562855002	BRGWA-12I	SM 2540C-2011	649295		
92562855003	BRGWA-23S	SM 2540C-2011	649491		
92562855001	BRGWA-12S	EPA 300.0 Rev 2.1 1993	649204		
92562855002	BRGWA-12I	EPA 300.0 Rev 2.1 1993	649204		
92562855003	BRGWA-23S	EPA 300.0 Rev 2.1 1993	649204		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-083-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92562855



Courier: Commercial Fed Ex Pace UPS USPS Other: Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/22/21 104

Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer: Off Gun ID: 083 Type of Ice: Dry Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 1.8 Correction Factor: 0.0 Add/Subtract (°C) 1.8

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8
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 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.	
Build 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 CDC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	W		
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: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised-October 28, 2020
Page 2 of 2

Document No.:
F-CAR-C1-013-Rev.07

Issuing Authority:
Pace Carolina's Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92562855

PH: NHD

Due Date: 10/06/21

CLIENT: 0A-0A Power

(exceptions: VOA, Coliform, TDC, Oil and Grease, DRD/ROIS (water) DOC, LUP)

**Bottom half of box is to list number of bottles

Bottle	BP40-125 ml Plastic Unpreserved (NA) (0-1)	BP70-125 ml Plastic Unpreserved (NA)	BP70-500 ml Plastic Unpreserved (NA)	BP70-1 liter Plastics Unpreserved (NA)	BP40-125 ml Plastic 10% Sodium Bicarbonate (0-1)	BP70-125 ml Plastic 10% Sodium Bicarbonate (0-1)	WV01-Wide mouthed Glass jar Unpreserved	AC11-1 liter Amber Unpreserved (NA) (0-1)	AC11-1 liter Amber HD (pH < 2)	AC11-250 ml Amber Unpreserved (NA) (0-1)	AC11-1 liter Amber 10% Sodium Bicarbonate (0-1)	AC11-250 ml Amber 10% Sodium Bicarbonate (0-1)	DO11-40 ml VOA HD (NA)	V01T-40 ml VOA Na2S2O3 (NM)	V01T-40 ml VOA Utp (NA)	DO11-40 ml VOA HD (NA)	V01E (E vials per lot) 10% Sodium Bicarbonate (NM)	V01T-125 ml Sterile Plastic (NM - 50)	V01T-250 ml Sterile Plastic (NM - 50)	BP70-250 ml Plastic 10% Sodium Bicarbonate (0-1) (0-1)	AC11-100 ml Amber Unpreserved vials (NA)	V01E-20 ml Sorbillion vials (NM)	DO11-40 ml Amber Unpreserved vials (NA)		
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 DHEH Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect container)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

Page: 1 of 1

Section 1: Analytical Request Information Project Name: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank] Contact Name: [Blank] Phone: [Blank] Email: [Blank]		Section 2: Analytical Request Information Request For: [Blank] From To: [Blank] Request Date: [Blank] Request Time: [Blank]		Section 3: Sample Information Sample ID: [Blank] Sample Name: [Blank] Requested Analytes: [Blank]	
Section 4: Sample Collection Date: [Blank] Time: [Blank]		Section 5: Sample Handling Number of Containers: [Blank]		Section 6: Analytical Method Method: [Blank]	
Section 7: Chain of Custody Name: [Blank] Title: [Blank]		Section 8: Analytical Method Method: [Blank]		Section 9: Laboratory Agency Name: [Blank]	
Section 10: Analytical Request Analyte: [Blank]		Section 11: Analytical Method Method: [Blank]		Section 12: Laboratory Agency Name: [Blank]	
Section 13: Analytical Request Analyte: [Blank]		Section 14: Analytical Method Method: [Blank]		Section 15: Laboratory Agency Name: [Blank]	
Section 16: Analytical Request Analyte: [Blank]		Section 17: Analytical Method Method: [Blank]		Section 18: Laboratory Agency Name: [Blank]	
Section 19: Analytical Request Analyte: [Blank]		Section 20: Analytical Method Method: [Blank]		Section 21: Laboratory Agency Name: [Blank]	
Section 22: Analytical Request Analyte: [Blank]		Section 23: Analytical Method Method: [Blank]		Section 24: Laboratory Agency Name: [Blank]	
Section 25: Analytical Request Analyte: [Blank]		Section 26: Analytical Method Method: [Blank]		Section 27: Laboratory Agency Name: [Blank]	
Section 28: Analytical Request Analyte: [Blank]		Section 29: Analytical Method Method: [Blank]		Section 30: Laboratory Agency Name: [Blank]	
Section 31: Analytical Request Analyte: [Blank]		Section 32: Analytical Method Method: [Blank]		Section 33: Laboratory Agency Name: [Blank]	
Section 34: Analytical Request Analyte: [Blank]		Section 35: Analytical Method Method: [Blank]		Section 36: Laboratory Agency Name: [Blank]	
Section 37: Analytical Request Analyte: [Blank]		Section 38: Analytical Method Method: [Blank]		Section 39: Laboratory Agency Name: [Blank]	
Section 40: Analytical Request Analyte: [Blank]		Section 41: Analytical Method Method: [Blank]		Section 42: Laboratory Agency Name: [Blank]	
Section 43: Analytical Request Analyte: [Blank]		Section 44: Analytical Method Method: [Blank]		Section 45: Laboratory Agency Name: [Blank]	
Section 46: Analytical Request Analyte: [Blank]		Section 47: Analytical Method Method: [Blank]		Section 48: Laboratory Agency Name: [Blank]	
Section 49: Analytical Request Analyte: [Blank]		Section 50: Analytical Method Method: [Blank]		Section 51: Laboratory Agency Name: [Blank]	
Section 52: Analytical Request Analyte: [Blank]		Section 53: Analytical Method Method: [Blank]		Section 54: Laboratory Agency Name: [Blank]	
Section 55: Analytical Request Analyte: [Blank]		Section 56: Analytical Method Method: [Blank]		Section 57: Laboratory Agency Name: [Blank]	
Section 58: Analytical Request Analyte: [Blank]		Section 59: Analytical Method Method: [Blank]		Section 60: Laboratory Agency Name: [Blank]	
Section 61: Analytical Request Analyte: [Blank]		Section 62: Analytical Method Method: [Blank]		Section 63: Laboratory Agency Name: [Blank]	
Section 64: Analytical Request Analyte: [Blank]		Section 65: Analytical Method Method: [Blank]		Section 66: Laboratory Agency Name: [Blank]	
Section 67: Analytical Request Analyte: [Blank]		Section 68: Analytical Method Method: [Blank]		Section 69: Laboratory Agency Name: [Blank]	
Section 70: Analytical Request Analyte: [Blank]		Section 71: Analytical Method Method: [Blank]		Section 72: Laboratory Agency Name: [Blank]	
Section 73: Analytical Request Analyte: [Blank]		Section 74: Analytical Method Method: [Blank]		Section 75: Laboratory Agency Name: [Blank]	
Section 76: Analytical Request Analyte: [Blank]		Section 77: Analytical Method Method: [Blank]		Section 78: Laboratory Agency Name: [Blank]	
Section 79: Analytical Request Analyte: [Blank]		Section 80: Analytical Method Method: [Blank]		Section 81: Laboratory Agency Name: [Blank]	
Section 82: Analytical Request Analyte: [Blank]		Section 83: Analytical Method Method: [Blank]		Section 84: Laboratory Agency Name: [Blank]	
Section 85: Analytical Request Analyte: [Blank]		Section 86: Analytical Method Method: [Blank]		Section 87: Laboratory Agency Name: [Blank]	
Section 88: Analytical Request Analyte: [Blank]		Section 89: Analytical Method Method: [Blank]		Section 90: Laboratory Agency Name: [Blank]	
Section 91: Analytical Request Analyte: [Blank]		Section 92: Analytical Method Method: [Blank]		Section 93: Laboratory Agency Name: [Blank]	
Section 94: Analytical Request Analyte: [Blank]		Section 95: Analytical Method Method: [Blank]		Section 96: Laboratory Agency Name: [Blank]	
Section 97: Analytical Request Analyte: [Blank]		Section 98: Analytical Method Method: [Blank]		Section 99: Laboratory Agency Name: [Blank]	
Section 100: Analytical Request Analyte: [Blank]		Section 101: Analytical Method Method: [Blank]		Section 102: Laboratory Agency Name: [Blank]	



Document Name
Sample Collection Logon Assign (MCM)
Document No
T-CAR-02-01 Rev 07

Document Revised: October 18, 2020
Page 1 of 2
Issued & Approved
Pace Analytical Quality Office

Laboratory receiving samples:

Ashville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Sample Location or
User Record

Other Name

Project #

Counter: Field Lab Other Other _____
 Commercial Other _____

Biological Media Present? Yes No Isolation? Yes No

Packing Material: Bubble Wrap Bubble Bag Paper Other _____

Temperature: Ambient Cold Hot Other _____
Time of Day: _____

Cooler Temp: _____ Correction Factor: _____
Add'l Location: _____

Cooler Temp Corrected (C)

USDA Regulated Soil? Yes No (sample)

Do samples originate in a quarantine zone area with unapproved (USDA) or (USDA) health impact?

Yes No

Quarantine Permit Expiration Expires: _____

Biological Media Present

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temperature samples or in cooling process
has begun

Do samples originate from a foreign source (international)?

Asking: Yes No

Comments by Quarantine:

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
Meat Hold Time Analysis (12 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	1
Each Item Individual Paper Separated?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4
Labels and Log on?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Freezer Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Sealing on bag?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Sealed and labeled (Miles) and P. Arrived?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	1
Sample Labels Match DOC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1

Includes Chain of Custody Analysis: _____

WT

Available in YOM Year 123 Area? Yes No N/A

Top Bag Present? Yes No N/A

Top Bag Sealed (each Present)? Yes No N/A

Comments/Insured/Outstanding:

Label Date Range? Yes No

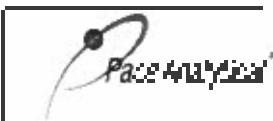
USDA Regulated Soil?

Person contacted: _____

Date/Time: _____

Project Manager SCUB? _____ Date: _____

Project Manager SQ? _____ Date: _____



* Check mark top half of box if pH and/or disinfection is verified and within the acceptance range for preservation sample.

Project #

--

(Sample VSA, Coliform, TCC, OF and Growth, DRO, DRI, Turb., GOC, Log)

* Bottom half of box is to list number of bottles

Sample	100 mL in Plastic Unopened (pH) (V)	100 mL in Plastic Unopened (VSA)	100 mL in Plastic Unopened (TCC)	100 mL in Plastic Unopened (OF)	100 mL in Plastic Unopened (Growth)	100 mL in Plastic Unopened (DRO)	100 mL in Plastic Unopened (DRI)	100 mL in Plastic Unopened (Turb.)	100 mL in Plastic Unopened (GOC)	100 mL in Plastic Unopened (Log)	100 mL in Plastic Unopened (VSA)	100 mL in Plastic Unopened (TCC)	100 mL in Plastic Unopened (OF)	100 mL in Plastic Unopened (Growth)	100 mL in Plastic Unopened (DRO)	100 mL in Plastic Unopened (DRI)	100 mL in Plastic Unopened (Turb.)	100 mL in Plastic Unopened (GOC)	100 mL in Plastic Unopened (Log)
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH adjustment	Date preserved for adjusted	Disinfection adjusted	Number of Preservatives added	LOG P

*Note: Whenever there are also samples in the log for the sampling group (e.g. samples, a copy of this form will be sent to the San Joaquin State Ball Center of San Diego for Out of State Preservation, out of sample location container)

10/1/2011

CHAIN OF CUSTODY / Analytical Request Document
 This form is to be used for all cases where a sample is to be analyzed in the laboratory.

Page 1 of 2

Section 1 Analytical Request Information Requester: [Blank] Requester Title: [Blank] Requester Department: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Section 2 Sample Information Sample Name: [Blank] Sample ID: [Blank] Sample Description: [Blank] Sample Quantity: [Blank]	Section 3 Analytical Request Information Requested Analysis: [Blank] Requested Method: [Blank] Requested Turnaround Time: [Blank]
--	--	---

Sample ID	Requester	Requester Title	Requester Department	Requester Phone	Requester Email	Sample Name	Sample ID	Sample Description	Sample Quantity	Requested Analysis	Requested Method	Requested Turnaround Time	Date Received	Time Received	Received By	Date Released	Time Released	Released By	Remarks
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

John W. [Signature]
 Date: 10-25-11



October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD DELIN PIEZO
Pace Project No.: 92563761

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 28, 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 DELIN PIEZO

Pace Project No.: 92563761

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 DELIN PIEZO

Pace Project No.: 92563761

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92563761001	PZ-51S	Water	09/27/21 15:38	09/28/21 10:18
92563761002	PZ-51I	Water	09/27/21 17:33	09/28/21 10:18
92563761003	PZ-61I	Water	09/27/21 16:43	09/28/21 10:18
92563761004	PZ-51D	Water	09/28/21 11:10	09/29/21 11:57
92563761005	PZ-57I	Water	09/28/21 14:29	09/29/21 11:57
92563761006	PZ-58I	Water	09/28/21 13:15	09/29/21 11:57
92563761007	PZ-44	Water	09/28/21 14:50	09/29/21 11:57
92563761008	PZ-50D	Water	09/28/21 09:24	09/29/21 11:57
92563761009	PZ-60I	Water	09/28/21 12:02	09/29/21 11:57

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563761001	PZ-51S	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
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563761002	PZ-51I	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
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563761003	PZ-61I	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
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563761004	PZ-51D	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
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563761005	PZ-57I	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
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563761006	PZ-58I	EPA 6010D	DRB	7
		EPA 6020B	KH	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563761007	PZ-44	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
		EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
92563761008	PZ-50D	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
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
		92563761009	PZ-60I	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

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 DELIN PIEZO

Pace Project No.: 92563761

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563761001	PZ-51S					
	Performed by	CUSTOME			09/28/21 17:34	
		R				
	pH	6.04	Std. Units		09/28/21 17:34	
EPA 6010D	Manganese	1.3	mg/L	0.040	10/07/21 18:46	
EPA 6010D	Potassium	2.2	mg/L	0.20	10/07/21 18:46	
EPA 6010D	Sodium	11.4	mg/L	1.0	10/07/21 18:46	M1
EPA 6010D	Calcium	7.5	mg/L	1.0	10/07/21 18:46	
EPA 6010D	Magnesium	8.4	mg/L	0.050	10/07/21 18:46	
EPA 6010D	Hardness, Total(SM 2340B)	53.2	mg/L	2.7	10/07/21 18:46	
EPA 6020B	Barium	0.025	mg/L	0.0050	10/08/21 20:07	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	10/08/21 20:07	
SM 2540C-2011	Total Dissolved Solids	88.0	mg/L	10.0	09/30/21 19:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	68.7	mg/L	5.0	10/07/21 19:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	68.7	mg/L	5.0	10/07/21 19:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	09/30/21 17:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.072J	mg/L	0.10	09/30/21 17:24	
EPA 353.2 Rev 2.0 1993	Nitrogen, NO2 plus NO3	1.8	mg/L	0.040	10/11/21 11:32	
92563761002	PZ-51I					
	Performed by	CUSTOME			09/28/21 17:34	
		R				
	pH	5.34	Std. Units		09/28/21 17:34	
EPA 6010D	Iron	0.031J	mg/L	0.040	10/07/21 19:15	
EPA 6010D	Manganese	37.5	mg/L	0.040	10/07/21 19:15	
EPA 6010D	Potassium	10.6	mg/L	0.20	10/07/21 19:15	
EPA 6010D	Sodium	45.8	mg/L	1.0	10/07/21 19:15	
EPA 6010D	Calcium	187	mg/L	1.0	10/07/21 19:15	
EPA 6010D	Magnesium	121	mg/L	0.050	10/07/21 19:15	
EPA 6010D	Hardness, Total(SM 2340B)	963	mg/L	2.7	10/07/21 19:15	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	10/08/21 20:30	
EPA 6020B	Barium	0.014	mg/L	0.0050	10/08/21 20:30	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	10/08/21 20:30	
EPA 6020B	Boron	0.39	mg/L	0.040	10/08/21 20:30	
EPA 6020B	Cadmium	0.0031	mg/L	0.00050	10/08/21 20:30	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	10/08/21 20:30	
EPA 6020B	Lithium	0.020J	mg/L	0.030	10/08/21 20:30	
SM 2540C-2011	Total Dissolved Solids	1560	mg/L	50.0	10/03/21 11:38	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	22.2	mg/L	5.0	10/07/21 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	22.2	mg/L	5.0	10/07/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	9.4	mg/L	1.0	09/30/21 17:40	
EPA 300.0 Rev 2.1 1993	Sulfate	933	mg/L	21.0	10/01/21 05:34	
92563761003	PZ-61I					
	Performed by	CUSTOME			09/28/21 17:34	
		R				
	pH	5.02	Std. Units		09/28/21 17:34	
EPA 6010D	Manganese	118	mg/L	0.40	10/08/21 12:31	
EPA 6010D	Iron	4.5	mg/L	0.040	10/07/21 19:20	
EPA 6010D	Potassium	7.0	mg/L	0.20	10/07/21 19:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563761003	PZ-61I					
EPA 6010D	Sodium	66.1	mg/L	1.0	10/07/21 19:20	
EPA 6010D	Calcium	230	mg/L	1.0	10/07/21 19:20	
EPA 6010D	Magnesium	180	mg/L	0.050	10/07/21 19:20	
EPA 6010D	Hardness, Total(SM 2340B)	1310	mg/L	2.7	10/07/21 19:20	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	10/08/21 20:36	
EPA 6020B	Barium	0.029	mg/L	0.0050	10/08/21 20:36	
EPA 6020B	Beryllium	0.0017	mg/L	0.00050	10/08/21 20:36	
EPA 6020B	Boron	0.26	mg/L	0.040	10/08/21 20:36	
EPA 6020B	Cadmium	0.00081	mg/L	0.00050	10/08/21 20:36	
EPA 6020B	Chromium	0.0077	mg/L	0.0050	10/08/21 20:36	
EPA 6020B	Cobalt	0.45	mg/L	0.0050	10/08/21 20:36	
EPA 6020B	Lead	0.0019	mg/L	0.0010	10/08/21 20:36	
EPA 6020B	Lithium	0.0095J	mg/L	0.030	10/08/21 20:36	
EPA 6020B	Selenium	0.0079	mg/L	0.0050	10/08/21 20:36	
SM 2540C-2011	Total Dissolved Solids	2100	mg/L	100	10/03/21 11:38	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	11.3	mg/L	5.0	10/07/21 19:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	11.3	mg/L	5.0	10/07/21 19:48	
EPA 300.0 Rev 2.1 1993	Chloride	20.0	mg/L	1.0	09/30/21 17:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	09/30/21 17:55	
EPA 300.0 Rev 2.1 1993	Sulfate	1420	mg/L	32.0	10/01/21 05:50	
92563761004	PZ-51D					
	Performed by	CUSTOME			09/29/21 13:10	
		R				
	pH	7.18	Std. Units		09/29/21 13:10	
EPA 6010D	Iron	1.7	mg/L	0.040	10/07/21 19:25	
EPA 6010D	Manganese	1.1	mg/L	0.040	10/07/21 19:25	
EPA 6010D	Potassium	10	mg/L	0.20	10/07/21 19:25	
EPA 6010D	Sodium	39.0	mg/L	1.0	10/07/21 19:25	
EPA 6010D	Calcium	113	mg/L	1.0	10/07/21 19:25	
EPA 6010D	Magnesium	28.2	mg/L	0.050	10/07/21 19:25	
EPA 6010D	Hardness, Total(SM 2340B)	399	mg/L	2.7	10/07/21 19:25	
EPA 6020B	Barium	0.057	mg/L	0.0050	10/08/21 20:53	
EPA 6020B	Boron	0.023J	mg/L	0.040	10/08/21 20:53	
EPA 6020B	Lithium	0.0096J	mg/L	0.030	10/08/21 20:53	
EPA 6020B	Molybdenum	0.0029J	mg/L	0.010	10/08/21 20:53	
SM 2540C-2011	Total Dissolved Solids	650	mg/L	20.0	10/03/21 11:39	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	144	mg/L	5.0	10/11/21 22:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	144	mg/L	5.0	10/11/21 22:43	
EPA 300.0 Rev 2.1 1993	Chloride	12.8	mg/L	1.0	09/30/21 18:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	09/30/21 18:59	
EPA 300.0 Rev 2.1 1993	Sulfate	294	mg/L	7.0	10/01/21 06:05	
92563761005	PZ-57I					
	Performed by	CUSTOME			09/29/21 13:10	
		R				
	pH	5.37	Std. Units		09/29/21 13:10	
EPA 6010D	Iron	2.6	mg/L	0.040	10/07/21 19:29	
EPA 6010D	Manganese	12.2	mg/L	0.040	10/07/21 19:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563761005	PZ-57I					
EPA 6010D	Potassium	4.3	mg/L	0.20	10/07/21 19:29	
EPA 6010D	Sodium	18.2	mg/L	1.0	10/07/21 19:29	
EPA 6010D	Calcium	51.1	mg/L	1.0	10/07/21 19:29	
EPA 6010D	Magnesium	31.3	mg/L	0.050	10/07/21 19:29	
EPA 6010D	Hardness, Total(SM 2340B)	257	mg/L	2.7	10/07/21 19:29	
EPA 6020B	Barium	0.022	mg/L	0.0050	10/08/21 20:59	
EPA 6020B	Beryllium	0.00031J	mg/L	0.00050	10/08/21 20:59	
EPA 6020B	Boron	0.48	mg/L	0.040	10/08/21 20:59	
EPA 6020B	Cadmium	0.00064	mg/L	0.00050	10/08/21 20:59	
EPA 6020B	Cobalt	0.055	mg/L	0.0050	10/08/21 20:59	
EPA 6020B	Lithium	0.018J	mg/L	0.030	10/08/21 20:59	
SM 2540C-2011	Total Dissolved Solids	542	mg/L	10.0	10/03/21 11:39	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.1	mg/L	5.0	10/11/21 22:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.1	mg/L	5.0	10/11/21 22:53	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	09/30/21 19:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	09/30/21 19:15	
EPA 300.0 Rev 2.1 1993	Sulfate	259	mg/L	6.0	10/01/21 06:21	
92563761006	PZ-58I					
	Performed by	CUSTOME			09/29/21 13:10	
		R				
	pH	4.00	Std. Units		09/29/21 13:10	
EPA 6010D	Iron	39.8	mg/L	0.040	10/07/21 19:34	
EPA 6010D	Manganese	20.2	mg/L	0.040	10/07/21 19:34	
EPA 6010D	Potassium	7.0	mg/L	0.20	10/07/21 19:34	
EPA 6010D	Sodium	30.3	mg/L	1.0	10/07/21 19:34	
EPA 6010D	Calcium	108	mg/L	1.0	10/07/21 19:34	
EPA 6010D	Magnesium	58.9	mg/L	0.050	10/07/21 19:34	
EPA 6010D	Hardness, Total(SM 2340B)	513	mg/L	2.7	10/07/21 19:34	
EPA 6020B	Barium	0.017	mg/L	0.0050	10/08/21 21:04	
EPA 6020B	Beryllium	0.025	mg/L	0.00050	10/08/21 21:04	
EPA 6020B	Boron	0.36	mg/L	0.040	10/08/21 21:04	
EPA 6020B	Cadmium	0.0042	mg/L	0.00050	10/08/21 21:04	
EPA 6020B	Cobalt	0.39	mg/L	0.0050	10/08/21 21:04	
EPA 6020B	Lithium	0.041	mg/L	0.030	10/08/21 21:04	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	10/08/21 21:04	
SM 2540C-2011	Total Dissolved Solids	1120	mg/L	20.0	10/03/21 11:39	
EPA 300.0 Rev 2.1 1993	Chloride	9.6	mg/L	1.0	09/30/21 19:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.97	mg/L	0.10	09/30/21 19:31	
EPA 300.0 Rev 2.1 1993	Sulfate	628	mg/L	14.0	10/01/21 06:37	
92563761007	PZ-44					
	Performed by	CUSTOME			09/29/21 13:10	
		R				
	pH	6.22	Std. Units		09/29/21 13:10	
EPA 6010D	Iron	0.11	mg/L	0.040	10/07/21 19:39	
EPA 6010D	Manganese	0.44	mg/L	0.040	10/07/21 19:39	
EPA 6010D	Potassium	2.5	mg/L	0.20	10/07/21 19:39	
EPA 6010D	Sodium	12.3	mg/L	1.0	10/07/21 19:39	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92563761007	PZ-44					
EPA 6010D	Calcium	24.2	mg/L	1.0	10/07/21 19:39	
EPA 6010D	Magnesium	10.3	mg/L	0.050	10/07/21 19:39	
EPA 6010D	Hardness, Total(SM 2340B)	103	mg/L	2.7	10/07/21 19:39	
EPA 6020B	Barium	0.049	mg/L	0.0050	10/08/21 21:10	
EPA 6020B	Boron	1.3	mg/L	0.040	10/08/21 21:10	
EPA 6020B	Lithium	0.0048J	mg/L	0.030	10/08/21 21:10	
SM 2540C-2011	Total Dissolved Solids	181	mg/L	10.0	10/03/21 11:39	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	81.8	mg/L	5.0	10/11/21 23:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	81.8	mg/L	5.0	10/11/21 23:00	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	09/30/21 19:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	09/30/21 19:47	
EPA 300.0 Rev 2.1 1993	Sulfate	47.2	mg/L	1.0	09/30/21 19:47	
92563761008	PZ-50D					
	Performed by	CUSTOMER			09/29/21 13:11	
	pH	6.23	Std. Units		09/29/21 13:11	
EPA 6010D	Iron	4.5	mg/L	0.040	10/07/21 19:44	
EPA 6010D	Manganese	14.7	mg/L	0.040	10/07/21 19:44	
EPA 6010D	Potassium	13.3	mg/L	0.20	10/07/21 19:44	
EPA 6010D	Sodium	62.1	mg/L	1.0	10/07/21 19:44	
EPA 6010D	Calcium	225	mg/L	1.0	10/07/21 19:44	
EPA 6010D	Magnesium	87.4	mg/L	0.050	10/07/21 19:44	
EPA 6010D	Hardness, Total(SM 2340B)	923	mg/L	2.7	10/07/21 19:44	
EPA 6020B	Barium	0.034	mg/L	0.0050	10/08/21 21:16	
EPA 6020B	Beryllium	0.000059J	mg/L	0.00050	10/08/21 21:16	
EPA 6020B	Boron	0.24	mg/L	0.040	10/08/21 21:16	
EPA 6020B	Cobalt	0.20	mg/L	0.0050	10/08/21 21:16	
EPA 6020B	Lithium	0.020J	mg/L	0.030	10/08/21 21:16	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	10/08/21 21:16	
SM 2540C-2011	Total Dissolved Solids	1470	mg/L	50.0	10/03/21 11:39	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	77.7	mg/L	5.0	10/11/21 23:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	77.7	mg/L	5.0	10/11/21 23:08	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	09/30/21 20:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/30/21 20:03	
EPA 300.0 Rev 2.1 1993	Sulfate	866	mg/L	20.0	10/01/21 06:52	
92563761009	PZ-60I					
	Performed by	CUSTOMER			09/29/21 13:11	
	pH	4.77	Std. Units		09/29/21 13:11	
EPA 6010D	Manganese	167	mg/L	0.40	10/08/21 12:36	
EPA 6010D	Iron	0.25	mg/L	0.040	10/07/21 19:49	
EPA 6010D	Potassium	13.0	mg/L	0.20	10/07/21 19:49	
EPA 6010D	Sodium	64.0	mg/L	1.0	10/07/21 19:49	
EPA 6010D	Calcium	274	mg/L	1.0	10/07/21 19:49	
EPA 6010D	Magnesium	173	mg/L	0.050	10/07/21 19:49	
EPA 6010D	Hardness, Total(SM 2340B)	1400	mg/L	2.7	10/07/21 19:49	
EPA 6020B	Barium	0.022	mg/L	0.0050	10/08/21 21:21	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92563761009	PZ-60I					
EPA 6020B	Beryllium	0.065	mg/L	0.00050	10/08/21 21:21	
EPA 6020B	Boron	0.23	mg/L	0.040	10/08/21 21:21	
EPA 6020B	Cadmium	0.016	mg/L	0.00050	10/08/21 21:21	
EPA 6020B	Cobalt	3.5	mg/L	0.050	10/11/21 14:21	
EPA 6020B	Lithium	0.10	mg/L	0.030	10/08/21 21:21	
EPA 6020B	Selenium	0.0049J	mg/L	0.0050	10/08/21 21:21	
SM 2540C-2011	Total Dissolved Solids	2600	mg/L	100	10/03/21 11:39	
EPA 300.0 Rev 2.1 1993	Chloride	27.2	mg/L	1.0	09/30/21 20:51	
EPA 300.0 Rev 2.1 1993	Fluoride	1.6	mg/L	0.10	09/30/21 20:51	
EPA 300.0 Rev 2.1 1993	Sulfate	1670	mg/L	37.0	10/01/21 07:40	M1

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-51S **Lab ID: 92563761001** Collected: 09/27/21 15:38 Received: 09/28/21 10:18 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

Performed by	CUSTOMER				1		09/28/21 17:34		
pH	6.04	Std. Units			1		09/28/21 17:34		

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	10/07/21 11:53	10/07/21 18:46	7439-89-6	
Manganese	1.3	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 18:46	7439-96-5	
Potassium	2.2	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 18:46	7440-09-7	
Sodium	11.4	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 18:46	7440-23-5	M1
Calcium	7.5	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 18:46	7440-70-2	
Magnesium	8.4	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 18:46	7439-95-4	
Hardness, Total(SM 2340B)	53.2	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 18:46		

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	10/08/21 10:25	10/08/21 20:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:07	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 20:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 20:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 20:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 20:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:07	7440-47-3	
Cobalt	0.0022J	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 20:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 20:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 20:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 20:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 20:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 20:07	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	10/13/21 07:00	10/13/21 10:44	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	88.0	mg/L	10.0	10.0	1		09/30/21 19:01		
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	68.7	mg/L	5.0	5.0	1		10/07/21 19:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:25		
Alkalinity, Total as CaCO3	68.7	mg/L	5.0	5.0	1		10/07/21 19:25		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

Sample: PZ-51S		Lab ID: 92563761001		Collected: 09/27/21 15:38	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	3.8	mg/L	1.0	0.60	1		09/30/21 17:24	16887-00-6	
Fluoride	0.072J	mg/L	0.10	0.050	1		09/30/21 17:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/30/21 17:24	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	1.8	mg/L	0.040	0.017	1		10/11/21 11:32		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-511 **Lab ID: 92563761002** Collected: 09/27/21 17:33 Received: 09/28/21 10:18 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

Performed by	CUSTOMER				1		09/28/21 17:34		
pH	5.34	Std. Units			1		09/28/21 17:34		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.031J	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:15	7439-89-6	
Manganese	37.5	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:15	7439-96-5	
Potassium	10.6	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:15	7440-09-7	
Sodium	45.8	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:15	7440-23-5	
Calcium	187	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:15	7440-70-2	
Magnesium	121	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:15	7439-95-4	
Hardness, Total(SM 2340B)	963	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:15		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	0.0012J	mg/L	0.0030	0.00078	1	10/08/21 10:25	10/08/21 20:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:30	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 20:30	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 20:30	7440-41-7	
Boron	0.39	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 20:30	7440-42-8	
Cadmium	0.0031	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 20:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:30	7440-47-3	
Cobalt	0.020	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 20:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 20:30	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 20:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 20:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 20:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 20:30	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	10/13/21 07:00	10/13/21 10:47	7439-97-6	M1,R1
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1560	mg/L	50.0	50.0	1		10/03/21 11:38		
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	22.2	mg/L	5.0	5.0	1		10/07/21 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:42		
Alkalinity, Total as CaCO3	22.2	mg/L	5.0	5.0	1		10/07/21 19:42		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-511		Lab ID: 92563761002		Collected: 09/27/21 17:33		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	9.4	mg/L	1.0	0.60	1		09/30/21 17:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 17:40	16984-48-8	
Sulfate	933	mg/L	21.0	10.5	21		10/01/21 05:34	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 11:33		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-611 **Lab ID: 92563761003** Collected: 09/27/21 16:43 Received: 09/28/21 10:18 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

Performed by	CUSTOMER				1		09/28/21 17:34		
pH	5.02	Std. Units			1		09/28/21 17:34		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Manganese	118	mg/L	0.40	0.043	10	10/07/21 11:53	10/08/21 12:31	7439-96-5
Iron	4.5	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:20	7439-89-6
Potassium	7.0	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:20	7440-09-7
Sodium	66.1	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:20	7440-23-5
Calcium	230	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:20	7440-70-2
Magnesium	180	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:20	7439-95-4
Hardness, Total(SM 2340B)	1310	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:20	

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	10/08/21 10:25	10/08/21 20:36	7440-36-0
Arsenic	0.0023J	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:36	7440-38-2
Barium	0.029	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 20:36	7440-39-3
Beryllium	0.0017	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 20:36	7440-41-7
Boron	0.26	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 20:36	7440-42-8
Cadmium	0.00081	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 20:36	7440-43-9
Chromium	0.0077	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:36	7440-47-3
Cobalt	0.45	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 20:36	7440-48-4
Lead	0.0019	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 20:36	7439-92-1
Lithium	0.0095J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 20:36	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 20:36	7439-98-7
Selenium	0.0079	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 20:36	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 20:36	7440-28-0

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.000078	1	10/13/21 07:00	10/13/21 11:04	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	2100	mg/L	100	100	1		10/03/21 11:38	
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	11.3	mg/L	5.0	5.0	1		10/07/21 19:48	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:48	
Alkalinity, Total as CaCO3	11.3	mg/L	5.0	5.0	1		10/07/21 19:48	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-611		Lab ID: 92563761003		Collected: 09/27/21 16:43		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	20.0	mg/L	1.0	0.60	1		09/30/21 17:55	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		09/30/21 17:55	16984-48-8	
Sulfate	1420	mg/L	32.0	16.0	32		10/01/21 05:50	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 11:34		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-51D **Lab ID: 92563761004** Collected: 09/28/21 11:10 Received: 09/29/21 11:57 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

Performed by	CUSTOMER				1		09/29/21 13:10		
pH	7.18	Std. Units			1		09/29/21 13:10		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	1.7	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:25	7439-89-6
Manganese	1.1	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:25	7439-96-5
Potassium	10	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:25	7440-09-7
Sodium	39.0	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:25	7440-23-5
Calcium	113	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:25	7440-70-2
Magnesium	28.2	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:25	7439-95-4
Hardness, Total(SM 2340B)	399	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:25	

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	10/08/21 10:25	10/08/21 20:53	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:53	7440-38-2
Barium	0.057	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 20:53	7440-39-3
Beryllium	ND	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 20:53	7440-41-7
Boron	0.023J	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 20:53	7440-42-8
Cadmium	ND	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 20:53	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:53	7440-47-3
Cobalt	ND	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 20:53	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 20:53	7439-92-1
Lithium	0.0096J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 20:53	7439-93-2
Molybdenum	0.0029J	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 20:53	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 20:53	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 20:53	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	10/13/21 07:00	10/13/21 11:07	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	650	mg/L	20.0	20.0	1		10/03/21 11:39	
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	144	mg/L	5.0	5.0	1		10/11/21 22:43	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 22:43	
Alkalinity, Total as CaCO3	144	mg/L	5.0	5.0	1		10/11/21 22:43	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

Sample: PZ-51D		Lab ID: 92563761004		Collected: 09/28/21 11:10	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	12.8	mg/L	1.0	0.60	1		09/30/21 18:59	16887-00-6	
Fluoride	0.26	mg/L	0.10	0.050	1		09/30/21 18:59	16984-48-8	
Sulfate	294	mg/L	7.0	3.5	7		10/01/21 06:05	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 12:27		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-571 **Lab ID: 92563761005** Collected: 09/28/21 14:29 Received: 09/29/21 11:57 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

Performed by	CUSTOMER				1		09/29/21 13:10		
pH	5.37	Std. Units			1		09/29/21 13:10		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	2.6	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:29	7439-89-6	
Manganese	12.2	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:29	7439-96-5	
Potassium	4.3	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:29	7440-09-7	
Sodium	18.2	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:29	7440-23-5	
Calcium	51.1	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:29	7440-70-2	
Magnesium	31.3	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:29	7439-95-4	
Hardness, Total(SM 2340B)	257	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:29		

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	10/08/21 10:25	10/08/21 20:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:59	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 20:59	7440-39-3	
Beryllium	0.00031J	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 20:59	7440-41-7	
Boron	0.48	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 20:59	7440-42-8	
Cadmium	0.00064	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 20:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 20:59	7440-47-3	
Cobalt	0.055	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 20:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 20:59	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 20:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 20:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 20:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 20:59	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	10/13/21 07:00	10/13/21 11:10	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	542	mg/L	10.0	10.0	1		10/03/21 11:39		
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	10.1	mg/L	5.0	5.0	1		10/11/21 22:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 22:53		
Alkalinity, Total as CaCO3	10.1	mg/L	5.0	5.0	1		10/11/21 22:53		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

Sample: PZ-571		Lab ID: 92563761005		Collected: 09/28/21 14:29	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	5.9	mg/L	1.0	0.60	1		09/30/21 19:15	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		09/30/21 19:15	16984-48-8	
Sulfate	259	mg/L	6.0	3.0	6		10/01/21 06:21	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 12:28		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-581 **Lab ID: 92563761006** Collected: 09/28/21 13:15 Received: 09/29/21 11:57 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

Performed by	CUSTOMER				1		09/29/21 13:10		
pH	4.00	Std. Units			1		09/29/21 13:10		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	39.8	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:34	7439-89-6	
Manganese	20.2	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:34	7439-96-5	
Potassium	7.0	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:34	7440-09-7	
Sodium	30.3	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:34	7440-23-5	
Calcium	108	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:34	7440-70-2	
Magnesium	58.9	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:34	7439-95-4	
Hardness, Total(SM 2340B)	513	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:34		

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	10/08/21 10:25	10/08/21 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:04	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 21:04	7440-39-3	
Beryllium	0.025	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 21:04	7440-41-7	
Boron	0.36	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 21:04	7440-42-8	
Cadmium	0.0042	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 21:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:04	7440-47-3	
Cobalt	0.39	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 21:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 21:04	7439-92-1	
Lithium	0.041	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 21:04	7439-98-7	
Selenium	0.0034J	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 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	0.000078	1	10/13/21 07:00	10/13/21 11:12	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1120	mg/L	20.0	20.0	1		10/03/21 11:39		
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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 22:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 22:58		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 22:58		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-58I		Lab ID: 92563761006		Collected: 09/28/21 13:15	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	9.6	mg/L	1.0	0.60	1		09/30/21 19:31	16887-00-6	
Fluoride	0.97	mg/L	0.10	0.050	1		09/30/21 19:31	16984-48-8	
Sulfate	628	mg/L	14.0	7.0	14		10/01/21 06:37	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 12:29		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-44 **Lab ID: 92563761007** 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
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/21 13:10		
pH	6.22	Std. Units			1		09/29/21 13:10		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	0.11	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:39	7439-89-6
Manganese	0.44	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:39	7439-96-5
Potassium	2.5	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:39	7440-09-7
Sodium	12.3	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:39	7440-23-5
Calcium	24.2	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:39	7440-70-2
Magnesium	10.3	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:39	7439-95-4
Hardness, Total(SM 2340B)	103	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:39	

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	10/08/21 10:25	10/08/21 21:10	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:10	7440-38-2
Barium	0.049	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 21:10	7440-39-3
Beryllium	ND	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 21:10	7440-41-7
Boron	1.3	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 21:10	7440-42-8
Cadmium	ND	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 21:10	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:10	7440-47-3
Cobalt	ND	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 21:10	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 21:10	7439-92-1
Lithium	0.0048J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 21:10	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 21:10	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 21:10	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 21:10	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	10/13/21 07:00	10/13/21 11:15	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	181	mg/L	10.0	10.0	1		10/03/21 11:39	
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	81.8	mg/L	5.0	5.0	1		10/11/21 23:00	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:00	
Alkalinity, Total as CaCO3	81.8	mg/L	5.0	5.0	1		10/11/21 23:00	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-44 **Lab ID: 92563761007** Collected: 09/28/21 14:50 Received: 09/29/21 11:57 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	5.0	mg/L	1.0	0.60	1		09/30/21 19:47	16887-00-6	
Fluoride	0.080J	mg/L	0.10	0.050	1		09/30/21 19:47	16984-48-8	
Sulfate	47.2	mg/L	1.0	0.50	1		09/30/21 19:47	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 12:30		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-50D **Lab ID: 92563761008** Collected: 09/28/21 09:24 Received: 09/29/21 11:57 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

Performed by	CUSTOMER				1		09/29/21 13:11		
pH	6.23	Std. Units			1		09/29/21 13:11		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Iron	4.5	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:44	7439-89-6
Manganese	14.7	mg/L	0.040	0.0043	1	10/07/21 11:53	10/07/21 19:44	7439-96-5
Potassium	13.3	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:44	7440-09-7
Sodium	62.1	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:44	7440-23-5
Calcium	225	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:44	7440-70-2
Magnesium	87.4	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:44	7439-95-4
Hardness, Total(SM 2340B)	923	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 19:44	

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	10/08/21 10:25	10/08/21 21:16	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:16	7440-38-2
Barium	0.034	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 21:16	7440-39-3
Beryllium	0.000059J	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 21:16	7440-41-7
Boron	0.24	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 21:16	7440-42-8
Cadmium	ND	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 21:16	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:16	7440-47-3
Cobalt	0.20	mg/L	0.0050	0.00039	1	10/08/21 10:25	10/08/21 21:16	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 21:16	7439-92-1
Lithium	0.020J	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 21:16	7439-93-2
Molybdenum	0.0021J	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 21:16	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 21:16	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 21:16	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	0.000078	1	10/13/21 07:00	10/13/21 11:17	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	1470	mg/L	50.0	50.0	1		10/03/21 11:39	
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	77.7	mg/L	5.0	5.0	1		10/11/21 23:08	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:08	
Alkalinity, Total as CaCO3	77.7	mg/L	5.0	5.0	1		10/11/21 23:08	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-50D		Lab ID: 92563761008		Collected: 09/28/21 09:24		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	13.0	mg/L	1.0	0.60	1		09/30/21 20:03	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/30/21 20:03	16984-48-8	
Sulfate	866	mg/L	20.0	10.0	20		10/01/21 06:52	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 12:31		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-601 **Lab ID: 92563761009** Collected: 09/28/21 12:02 Received: 09/29/21 11:57 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

Performed by	CUSTOMER				1		09/29/21 13:11		
pH	4.77	Std. Units			1		09/29/21 13:11		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Manganese	167	mg/L	0.40	0.043	10	10/07/21 11:53	10/08/21 12:36	7439-96-5
Iron	0.25	mg/L	0.040	0.025	1	10/07/21 11:53	10/07/21 19:49	7439-89-6
Potassium	13.0	mg/L	0.20	0.15	1	10/07/21 11:53	10/07/21 19:49	7440-09-7
Sodium	64.0	mg/L	1.0	0.58	1	10/07/21 11:53	10/07/21 19:49	7440-23-5
Calcium	274	mg/L	1.0	0.12	1	10/07/21 11:53	10/07/21 19:49	7440-70-2
Magnesium	173	mg/L	0.050	0.012	1	10/07/21 11:53	10/07/21 19:49	7439-95-4
Hardness, Total(SM 2340B)	1400	mg/L	2.7	0.35	1	10/07/21 11:53	10/07/21 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	10/08/21 10:25	10/08/21 21:21	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:21	7440-38-2
Barium	0.022	mg/L	0.0050	0.00067	1	10/08/21 10:25	10/08/21 21:21	7440-39-3
Beryllium	0.065	mg/L	0.00050	0.000054	1	10/08/21 10:25	10/08/21 21:21	7440-41-7
Boron	0.23	mg/L	0.040	0.0086	1	10/08/21 10:25	10/08/21 21:21	7440-42-8
Cadmium	0.016	mg/L	0.00050	0.00011	1	10/08/21 10:25	10/08/21 21:21	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	10/08/21 10:25	10/08/21 21:21	7440-47-3
Cobalt	3.5	mg/L	0.050	0.0039	10	10/08/21 10:25	10/11/21 14:21	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	10/08/21 10:25	10/08/21 21:21	7439-92-1
Lithium	0.10	mg/L	0.030	0.00073	1	10/08/21 10:25	10/08/21 21:21	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	10/08/21 10:25	10/08/21 21:21	7439-98-7
Selenium	0.0049J	mg/L	0.0050	0.0014	1	10/08/21 10:25	10/08/21 21:21	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	10/08/21 10:25	10/08/21 21:21	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	10/13/21 07:00	10/13/21 11:20	7439-97-6
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	2600	mg/L	100	100	1		10/03/21 11:39	
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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 23:16	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:16	
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 23:16	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Sample: PZ-60I **Lab ID: 92563761009** Collected: 09/28/21 12:02 Received: 09/29/21 11:57 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	27.2	mg/L	1.0	0.60	1		09/30/21 20:51	16887-00-6	
Fluoride	1.6	mg/L	0.10	0.050	1		09/30/21 20:51	16984-48-8	
Sulfate	1670	mg/L	37.0	18.5	37		10/01/21 07:40	14808-79-8	M1
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 12:32		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

QC Batch:	651397	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
Associated Lab Samples:		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009			

METHOD BLANK:	3416096	Matrix:	Water
Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/07/21 18:37	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	10/07/21 18:37	
Iron	mg/L	ND	0.040	0.025	10/07/21 18:37	
Magnesium	mg/L	ND	0.050	0.012	10/07/21 18:37	
Manganese	mg/L	ND	0.040	0.0043	10/07/21 18:37	
Potassium	mg/L	ND	0.20	0.15	10/07/21 18:37	
Sodium	mg/L	ND	1.0	0.58	10/07/21 18:37	

LABORATORY CONTROL SAMPLE: 3416097

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	6.8	103	80-120	
Iron	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.84	84	80-120	
Sodium	mg/L	1	1.1	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3416098 3416099

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	7.5	1	1	8.4	8.4	94	91	75-125	0	20		
Hardness, Total(SM 2340B)	mg/L	53.2	6.6	6.6	58.9	59.2	86	91	75-125	1	20		
Iron	mg/L	ND	1	1	1.1	1.0	105	103	75-125	2	20		
Magnesium	mg/L	8.4	1	1	9.2	9.3	80	90	75-125	1	20		
Manganese	mg/L	1.3	1	1	2.3	2.3	97	96	75-125	0	20		
Potassium	mg/L	2.2	1	1	3.2	3.2	102	98	75-125	1	20		
Sodium	mg/L	11.4	1	1	11.9	12.3	46	90	75-125	4	20	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

QC Batch: 651684 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

METHOD BLANK: 3417564 Matrix: Water
 Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	10/08/21 19:44	
Arsenic	mg/L	ND	0.0050	0.0011	10/08/21 19:44	
Barium	mg/L	ND	0.0050	0.00067	10/08/21 19:44	
Beryllium	mg/L	ND	0.00050	0.000054	10/08/21 19:44	
Boron	mg/L	ND	0.040	0.0086	10/08/21 19:44	
Cadmium	mg/L	ND	0.00050	0.00011	10/08/21 19:44	
Chromium	mg/L	ND	0.0050	0.0011	10/08/21 19:44	
Cobalt	mg/L	ND	0.0050	0.00039	10/08/21 19:44	
Lead	mg/L	ND	0.0010	0.00089	10/08/21 19:44	
Lithium	mg/L	ND	0.030	0.00073	10/08/21 19:44	
Molybdenum	mg/L	ND	0.010	0.00074	10/08/21 19:44	
Selenium	mg/L	ND	0.0050	0.0014	10/08/21 19:44	
Thallium	mg/L	ND	0.0010	0.00018	10/08/21 19:44	

LABORATORY CONTROL SAMPLE: 3417565

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	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.094	94	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	0.094	94	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3417566 3417567

Parameter	Units	92563761001 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	107	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Parameter	Units	3417566		3417567		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92563761001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		
Barium	mg/L	0.025	0.1	0.1	0.12	0.12	96	98	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	2	20		
Boron	mg/L	ND	1	1	0.87	0.91	86	91	75-125	5	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20		
Cobalt	mg/L	0.0022J	0.1	0.1	0.091	0.092	88	90	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.093	0.093	92	93	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.093	92	93	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

QC Batch: 652379 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

METHOD BLANK: 3420817 Matrix: Water
 Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	10/13/21 10:39	

LABORATORY CONTROL SAMPLE: 3420818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420819 3420820

Parameter	Units	92563761002 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	0.0022	0.0015	86	59	75-125	37	20	M1,R1

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761001

METHOD BLANK: 3409662 Matrix: Water
 Associated Lab Samples: 92563761001

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 DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

METHOD BLANK: 3411236 Matrix: Water
 Associated Lab Samples: 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

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 DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761001, 92563761002, 92563761003

METHOD BLANK: 3416272 Matrix: Water
 Associated Lab Samples: 92563761001, 92563761002, 92563761003

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 DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

METHOD BLANK: 3419013 Matrix: Water
 Associated Lab Samples: 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

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					MSD % 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 DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008

METHOD BLANK: 3409685 Matrix: Water
 Associated Lab Samples: 92563761001, 92563761002, 92563761003, 92563761004, 92563761005, 92563761006, 92563761007, 92563761008

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		3409688		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD 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		3409690		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD 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 DELIN PIEZO

Pace Project No.: 92563761

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: 92563761009

METHOD BLANK: 3409716 Matrix: Water

Associated Lab Samples: 92563761009

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		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	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		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	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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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761001, 92563761002, 92563761003

METHOD BLANK: 3418960 Matrix: Water
 Associated Lab Samples: 92563761001, 92563761002, 92563761003

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		3418963		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.058	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418964 3418965

Parameter	Units	92564312001		3418965		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.052	2.5	1.8	1.8	69	68	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

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: 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

METHOD BLANK: 3418972 Matrix: Water
 Associated Lab Samples: 92563761004, 92563761005, 92563761006, 92563761007, 92563761008, 92563761009

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		3418974		3418975		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Nitrogen, NO2 plus NO3	mg/L	43.3	2.5	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		3418976		3418977		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.5	2.3	2.3	92	93	90-110	1 10

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QUALIFIERS

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO
 Pace Project No.: 92563761

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563761001	PZ-51S				
92563761002	PZ-51I				
92563761003	PZ-61I				
92563761004	PZ-51D				
92563761005	PZ-57I				
92563761006	PZ-58I				
92563761007	PZ-44				
92563761008	PZ-50D				
92563761009	PZ-60I				
92563761001	PZ-51S	EPA 3010A	651397	EPA 6010D	651486
92563761002	PZ-51I	EPA 3010A	651397	EPA 6010D	651486
92563761003	PZ-61I	EPA 3010A	651397	EPA 6010D	651486
92563761004	PZ-51D	EPA 3010A	651397	EPA 6010D	651486
92563761005	PZ-57I	EPA 3010A	651397	EPA 6010D	651486
92563761006	PZ-58I	EPA 3010A	651397	EPA 6010D	651486
92563761007	PZ-44	EPA 3010A	651397	EPA 6010D	651486
92563761008	PZ-50D	EPA 3010A	651397	EPA 6010D	651486
92563761009	PZ-60I	EPA 3010A	651397	EPA 6010D	651486
92563761001	PZ-51S	EPA 3005A	651684	EPA 6020B	651759
92563761002	PZ-51I	EPA 3005A	651684	EPA 6020B	651759
92563761003	PZ-61I	EPA 3005A	651684	EPA 6020B	651759
92563761004	PZ-51D	EPA 3005A	651684	EPA 6020B	651759
92563761005	PZ-57I	EPA 3005A	651684	EPA 6020B	651759
92563761006	PZ-58I	EPA 3005A	651684	EPA 6020B	651759
92563761007	PZ-44	EPA 3005A	651684	EPA 6020B	651759
92563761008	PZ-50D	EPA 3005A	651684	EPA 6020B	651759
92563761009	PZ-60I	EPA 3005A	651684	EPA 6020B	651759
92563761001	PZ-51S	EPA 7470A	652379	EPA 7470A	652560
92563761002	PZ-51I	EPA 7470A	652379	EPA 7470A	652560
92563761003	PZ-61I	EPA 7470A	652379	EPA 7470A	652560
92563761004	PZ-51D	EPA 7470A	652379	EPA 7470A	652560
92563761005	PZ-57I	EPA 7470A	652379	EPA 7470A	652560
92563761006	PZ-58I	EPA 7470A	652379	EPA 7470A	652560
92563761007	PZ-44	EPA 7470A	652379	EPA 7470A	652560
92563761008	PZ-50D	EPA 7470A	652379	EPA 7470A	652560
92563761009	PZ-60I	EPA 7470A	652379	EPA 7470A	652560
92563761001	PZ-51S	SM 2540C-2011	650109		
92563761002	PZ-51I	SM 2540C-2011	650392		
92563761003	PZ-61I	SM 2540C-2011	650392		
92563761004	PZ-51D	SM 2540C-2011	650392		
92563761005	PZ-57I	SM 2540C-2011	650392		
92563761006	PZ-58I	SM 2540C-2011	650392		
92563761007	PZ-44	SM 2540C-2011	650392		
92563761008	PZ-50D	SM 2540C-2011	650392		
92563761009	PZ-60I	SM 2540C-2011	650392		
92563761001	PZ-51S	SM 2320B-2011	651424		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD DELIN PIEZO

Pace Project No.: 92563761

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563761002	PZ-51I	SM 2320B-2011	651424		
92563761003	PZ-61I	SM 2320B-2011	651424		
92563761004	PZ-51D	SM 2320B-2011	651992		
92563761005	PZ-57I	SM 2320B-2011	651992		
92563761006	PZ-58I	SM 2320B-2011	651992		
92563761007	PZ-44	SM 2320B-2011	651992		
92563761008	PZ-50D	SM 2320B-2011	651992		
92563761009	PZ-60I	SM 2320B-2011	651992		
92563761001	PZ-51S	EPA 300.0 Rev 2.1 1993	650118		
92563761002	PZ-51I	EPA 300.0 Rev 2.1 1993	650118		
92563761003	PZ-61I	EPA 300.0 Rev 2.1 1993	650118		
92563761004	PZ-51D	EPA 300.0 Rev 2.1 1993	650118		
92563761005	PZ-57I	EPA 300.0 Rev 2.1 1993	650118		
92563761006	PZ-58I	EPA 300.0 Rev 2.1 1993	650118		
92563761007	PZ-44	EPA 300.0 Rev 2.1 1993	650118		
92563761008	PZ-50D	EPA 300.0 Rev 2.1 1993	650118		
92563761009	PZ-60I	EPA 300.0 Rev 2.1 1993	650124		
92563761001	PZ-51S	EPA 353.2 Rev 2.0 1993	651968		
92563761002	PZ-51I	EPA 353.2 Rev 2.0 1993	651968		
92563761003	PZ-61I	EPA 353.2 Rev 2.0 1993	651968		
92563761004	PZ-51D	EPA 353.2 Rev 2.0 1993	651970		
92563761005	PZ-57I	EPA 353.2 Rev 2.0 1993	651970		
92563761006	PZ-58I	EPA 353.2 Rev 2.0 1993	651970		
92563761007	PZ-44	EPA 353.2 Rev 2.0 1993	651970		
92563761008	PZ-50D	EPA 353.2 Rev 2.0 1993	651970		
92563761009	PZ-60I	EPA 353.2 Rev 2.0 1993	651970		

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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# : 92563761**



Carrier: Fed Ex UPS USPS Client
 Commercial Parcel Other: _____

Custody Seal Present? Yes No Seal Intact? Yes No

Date/Initials Person Examining Contents: 10/28/20

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun (R) 130 Type of Ice: Dry Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 3.4 Correction Factor: 0.1
 Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, testing 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

Chain of Custody Present?	Yes	No	N/A	1	Comments/Discrepancy
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Short Hold Time Analysis (K72 or J)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	
Batch Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
Parcel Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
Classified Analysis: Samples Field Filtered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	
Sample Labels: Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
Includes Date/Time/ID/Analysis Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
Presence in VOA Vials (K5-Event)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	
Exp. Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13	
True Blank Custody Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of soils containers:

Person contacted:

Date/Time:

Project Manager SCUR Review:

Date:

Project Manager SQI Review:

Date:



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-003-Rev.07

Document Revised: October 28, 2020
Page 3 of 3
Issuing Authority:
Pace Analytical Facilities Division

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TDC, Oil and Grease, DRB/BDLS (water) DOC, UMG

** Bottom half of box is to list number of bottles

Project #

WO# : 92563761

PH: NRG

Due Date: 10/12/21

CLIENT: GR-GR Power

Sample ID	Type of Preservation	Number of Bottles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
BP10-125 ml Plastic Unpreserved (N/A) (2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml Plastic Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-500 ml Plastic Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml Plastic (N/A) (4 x 2) (2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml plastic (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-500 ml Plastic 2L Acetate 8. number (4)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-25 ml Plastic (N/A) (4 x 2) (2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
MultiVial-mounted Glass jar Unpreserved			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-250 ml Amber Unpreserved (N/A) (2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-250 ml Amber Unpreserved (N/A) (2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-250 ml Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-500 ml Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-250 ml Amber (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG10-500 ml VOA HCl (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10-50 ml VOA (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10-100 ml VOA (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10-250 ml VOA (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10-500 ml VOA (N/A) (4 x 2)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10 (4 vials per 100-1000 ml (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO10 (8 vials per 100-1000 ml (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml Sample Plastic (N/A) (4)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml Sample Plastic (N/A) (4)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-500 ml Sample Plastic (N/A) (4)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Sample Plastic (N/A) (4)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml Plastic (N/A) (3-3-3)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AG100-100 ml Amber Unpreserved vials (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO100-20 ml Sample vials (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VO100-40 ml Amber Unpreserved vials (N/A)			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservation 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 Official Certification Office (i.e. Out of field, incorrect preservative, not at temp, incorrect container)



CHAIN OF CUSTODY / Analytical Request Document
 The Chain of Custody is a LEGAL DOCUMENT. An analytical chain must be completed according to the following instructions.

Section 1: Requester Information
 Section 2: Requester Agency Information
 Section 3: Request Information
 Section 4: Requester Signature
 Section 5: Date Received
 Section 6: Date Shipped
 Section 7: Date Returned
 Section 8: Requester Agency
 Section 9: Requester Name
 Section 10: Requester Title
 Section 11: Requester Address
 Section 12: Requester Phone
 Section 13: Requester Email
 Section 14: Requester Fax
 Section 15: Requester Website
 Section 16: Requester Agency
 Section 17: Requester Name
 Section 18: Requester Title
 Section 19: Requester Address
 Section 20: Requester Phone
 Section 21: Requester Email
 Section 22: Requester Fax
 Section 23: Requester Website

ITEM #	DESCRIPTION	DATE RECEIVED	DATE SHIPPED	DATE RETURNED	ANALYSIS	TESTS	REMARKS	INITIALS	SIGNATURE	DATE	TIME	LOCATION
1	SAMPLE ID The Description on this Sample ID must be specific.											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

John W. [Signature] / [Signature] DATE RECEIVED 1-28-21



Laboratory handling samples:

Ashville Eden Greenwood Harrisville Raleigh Mechanicsville Atlanta Kennesaw

Sample Analysis
 Liquid Analysis

Client Name: G-A Power Project #

Order: Field Lab Other Paste Other



Cooling Seal Present? Yes No Seal Intact? Yes No

Date/Initial Person Assuming Custody: 8/29/21

Packing Material: Bubble Wrap Foam Other Other

Biological Storage Required? Yes No Other

Thermometer: 110°C Type/Make: EMM Other Other

COOLANT: Oil Correction Factor: 0.0

Temp. fluctuations during shipping? Yes No

Cooler Temp. Controlled (Y/N)

USDA Required Soil E (Y/N) (N/A water samples)
 Soil sampling location is a previously sampled location listed under: GA 41, 42, 43, 44, 45, 46, 47

Other references include forms or reports such as: preliminary, including forms and forms E-101

Item	Y	N	NA	Other	Comments/Discrepancy
Check off Cooling System?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature and pH (initial) (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check Hold Time Analysis (Y/N) (Y/N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Both Test & Reference Time Required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Calibration (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Control Certificate (Y/N) (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Seal analysis Samples from (Y/N) (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature (Y/N) (Y/N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Date/Time/Analysis: <u>Atlanta</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature (Y/N) (Y/N) (Y/N)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Top Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Top Seal Cooling Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Customer (Y/N) SAMPLE DISCREPANCY Field time required: Yes No

Control certificate required: Yes No

Person collecting: _____ Date/Time: _____

Project Manager (MCLA) Employee: _____ Date: _____

Project Manager TRF Employee: _____ Date: _____



* Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

[Groupings: 100, 10, 1000, 10000, 100000, 1000000, 10000000, 100000000]

** Bottom half of box is to list number of bottles

Project #

Project #

1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000
10	100	1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000
10	100	1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000
100	1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000
10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000
100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000
1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000
10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000	1000000000000000000000
100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000	1000000000000000000000	10000000000000000000000
1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000	1000000000000000000000	10000000000000000000000	100000000000000000000000
10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000	1000000000000000000000	10000000000000000000000	100000000000000000000000	1000000000000000000000000

pH Adjustment Log for Preserved Samples

Sample ID	Date of Collection	pH Adjustment Range	Time preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

NOTE: While this table is to be used for recording pH adjustment, a copy of this form can be used in the field to ensure that all preservation adjustments are properly documented.

Revision

CHAIN-OF-CUSTODY / Analytical Request Document
 The following Chain-of-Custody (COC) and/or Analytical Request Document (ARD) is intended to be used for forensic purposes.

Page 1 of 1

Section 1: Case Information		Section 2: Sample Information		Section 3: Chain of Custody		Section 4: Analytical Request	
Case No.	Date	Sample No.	Location	Name	Signature	Request	Notes
<p>EXAMPLE 10 For Requester's Use Please do not write on this area</p>		<p>Sample ID: 10001 Date: 10/10/10 Location: 10001</p>		<p>Name: [Redacted] Signature: [Redacted]</p>		<p>Request: [Redacted]</p>	
1	10/10/10	10001	10001	[Redacted]	[Redacted]	[Redacted]	[Redacted]
2	10/10/10	10002	10002	[Redacted]	[Redacted]	[Redacted]	[Redacted]
3	10/10/10	10003	10003	[Redacted]	[Redacted]	[Redacted]	[Redacted]
4	10/10/10	10004	10004	[Redacted]	[Redacted]	[Redacted]	[Redacted]
5	10/10/10	10005	10005	[Redacted]	[Redacted]	[Redacted]	[Redacted]
6	10/10/10	10006	10006	[Redacted]	[Redacted]	[Redacted]	[Redacted]
7	10/10/10	10007	10007	[Redacted]	[Redacted]	[Redacted]	[Redacted]
8	10/10/10	10008	10008	[Redacted]	[Redacted]	[Redacted]	[Redacted]
9	10/10/10	10009	10009	[Redacted]	[Redacted]	[Redacted]	[Redacted]
10	10/10/10	10010	10010	[Redacted]	[Redacted]	[Redacted]	[Redacted]
11	10/10/10	10011	10011	[Redacted]	[Redacted]	[Redacted]	[Redacted]
12	10/10/10	10012	10012	[Redacted]	[Redacted]	[Redacted]	[Redacted]
13	10/10/10	10013	10013	[Redacted]	[Redacted]	[Redacted]	[Redacted]
14	10/10/10	10014	10014	[Redacted]	[Redacted]	[Redacted]	[Redacted]
15	10/10/10	10015	10015	[Redacted]	[Redacted]	[Redacted]	[Redacted]
16	10/10/10	10016	10016	[Redacted]	[Redacted]	[Redacted]	[Redacted]
17	10/10/10	10017	10017	[Redacted]	[Redacted]	[Redacted]	[Redacted]
18	10/10/10	10018	10018	[Redacted]	[Redacted]	[Redacted]	[Redacted]
19	10/10/10	10019	10019	[Redacted]	[Redacted]	[Redacted]	[Redacted]
20	10/10/10	10020	10020	[Redacted]	[Redacted]	[Redacted]	[Redacted]
21	10/10/10	10021	10021	[Redacted]	[Redacted]	[Redacted]	[Redacted]
22	10/10/10	10022	10022	[Redacted]	[Redacted]	[Redacted]	[Redacted]
23	10/10/10	10023	10023	[Redacted]	[Redacted]	[Redacted]	[Redacted]
24	10/10/10	10024	10024	[Redacted]	[Redacted]	[Redacted]	[Redacted]
25	10/10/10	10025	10025	[Redacted]	[Redacted]	[Redacted]	[Redacted]
26	10/10/10	10026	10026	[Redacted]	[Redacted]	[Redacted]	[Redacted]
27	10/10/10	10027	10027	[Redacted]	[Redacted]	[Redacted]	[Redacted]
28	10/10/10	10028	10028	[Redacted]	[Redacted]	[Redacted]	[Redacted]
29	10/10/10	10029	10029	[Redacted]	[Redacted]	[Redacted]	[Redacted]
30	10/10/10	10030	10030	[Redacted]	[Redacted]	[Redacted]	[Redacted]
31	10/10/10	10031	10031	[Redacted]	[Redacted]	[Redacted]	[Redacted]
32	10/10/10	10032	10032	[Redacted]	[Redacted]	[Redacted]	[Redacted]
33	10/10/10	10033	10033	[Redacted]	[Redacted]	[Redacted]	[Redacted]
34	10/10/10	10034	10034	[Redacted]	[Redacted]	[Redacted]	[Redacted]
35	10/10/10	10035	10035	[Redacted]	[Redacted]	[Redacted]	[Redacted]
36	10/10/10	10036	10036	[Redacted]	[Redacted]	[Redacted]	[Redacted]
37	10/10/10	10037	10037	[Redacted]	[Redacted]	[Redacted]	[Redacted]
38	10/10/10	10038	10038	[Redacted]	[Redacted]	[Redacted]	[Redacted]
39	10/10/10	10039	10039	[Redacted]	[Redacted]	[Redacted]	[Redacted]
40	10/10/10	10040	10040	[Redacted]	[Redacted]	[Redacted]	[Redacted]

10001-10040



October 29, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCDE BACKGROUND RADS
Pace Project No.: 92562849

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 22, 2021 and September 23, 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 - Greensburg

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-BCDE BACKGROUND RADS
Pace Project No.: 92562849

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562849001	BRGWA-5S	Water	09/21/21 16:28	09/22/21 17:08
92562849002	BRGWA-5I	Water	09/21/21 12:30	09/22/21 17:08
92562849003	BRGWA-2S	Water	09/22/21 11:25	09/23/21 10:47
92562849004	BRGWA-2I	Water	09/22/21 10:21	09/23/21 10:47
92562849005	BRGWA-6S	Water	09/22/21 11:55	09/23/21 10:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92562849001	BRGWA-5S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562849002	BRGWA-5I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562849003	BRGWA-2S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562849004	BRGWA-2I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562849005	BRGWA-6S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562849001	BRGWA-5S					
EPA 9315	Radium-226	0.298 ± 0.226 (0.394)	pCi/L		10/08/21 08:02	
EPA 9320	Radium-228	C:94% T:NA 0.562 ± 0.557 (1.16)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:61% T:84% 0.860 ± 0.783 (1.55)	pCi/L		10/20/21 17:19	
92562849002	BRGWA-5I					
EPA 9315	Radium-226	0.123 ± 0.179 (0.391)	pCi/L		10/08/21 07:36	
EPA 9320	Radium-228	C:98% T:NA 0.0589 ± 0.389 (0.891)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:62% T:91% 0.182 ± 0.568 (1.28)	pCi/L		10/20/21 17:19	
92562849003	BRGWA-2S					
EPA 9315	Radium-226	0.172 ± 0.153 (0.262)	pCi/L		10/08/21 07:37	
EPA 9320	Radium-228	C:99% T:NA 1.16 ± 0.614 (1.11)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:59% T:83% 1.33 ± 0.767 (1.37)	pCi/L		10/20/21 17:19	
92562849004	BRGWA-2I					
EPA 9315	Radium-226	0.115 ± 0.155 (0.326)	pCi/L		10/08/21 07:35	
EPA 9320	Radium-228	C:100% T:NA 0.234 ± 0.419 (0.917)	pCi/L		10/07/21 14:38	
Total Radium Calculation	Total Radium	C:62% T:83% 0.349 ± 0.574 (1.24)	pCi/L		10/20/21 17:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562849005	BRGWA-6S					
EPA 9315	Radium-226	0.943 ± 0.340 (0.300) C:104% T:NA	pCi/L		10/08/21 07:36	
EPA 9320	Radium-228	-0.0295 ± 0.364 (0.860) C:65% T:82%	pCi/L		10/07/21 14:39	
Total Radium Calculation	Total Radium	0.943 ± 0.704 (1.16)	pCi/L		10/20/21 17:19	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.298 ± 0.226 (0.394) C:94% T:NA	pCi/L	10/08/21 08:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.562 ± 0.557 (1.16) C:61% T:84%	pCi/L	10/07/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.860 ± 0.783 (1.55)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-5I Lab ID: 92562849002 Collected: 09/21/21 12:30 Received: 09/22/21 17:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.123 ± 0.179 (0.391) C:98% T:NA	pCi/L	10/08/21 07:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0589 ± 0.389 (0.891) C:62% T:91%	pCi/L	10/07/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.182 ± 0.568 (1.28)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-2S Lab ID: 92562849003 Collected: 09/22/21 11:25 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.172 ± 0.153 (0.262) C:99% T:NA	pCi/L	10/08/21 07:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.16 ± 0.614 (1.11) C:59% T:83%	pCi/L	10/07/21 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.33 ± 0.767 (1.37)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-2I Lab ID: 92562849004 Collected: 09/22/21 10:21 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.115 ± 0.155 (0.326) C:100% T:NA	pCi/L	10/08/21 07:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.234 ± 0.419 (0.917) C:62% T:83%	pCi/L	10/07/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.349 ± 0.574 (1.24)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWA-6S Lab ID: 92562849005 Collected: 09/22/21 11:55 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.943 ± 0.340 (0.300) C:104% T:NA	pCi/L	10/08/21 07:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0295 ± 0.364 (0.860) C:65% T:82%	pCi/L	10/07/21 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.943 ± 0.704 (1.16)	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92562849001, 92562849002, 92562849003, 92562849004, 92562849005

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples: 92562849001, 92562849002, 92562849003, 92562849004, 92562849005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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 AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

QC Batch:	466264	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92562849001, 92562849002, 92562849003, 92562849004, 92562849005

METHOD BLANK: 2251638 Matrix: Water

Associated Lab Samples: 92562849001, 92562849002, 92562849003, 92562849004, 92562849005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCDE BACKGROUND RADS

Pace Project No.: 92562849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562849001	BRGWA-5S	EPA 9315	466264		
92562849002	BRGWA-5I	EPA 9315	466264		
92562849003	BRGWA-2S	EPA 9315	466264		
92562849004	BRGWA-2I	EPA 9315	466264		
92562849005	BRGWA-6S	EPA 9315	466264		
92562849001	BRGWA-5S	EPA 9320	466410		
92562849002	BRGWA-5I	EPA 9320	466410		
92562849003	BRGWA-2S	EPA 9320	466410		
92562849004	BRGWA-2I	EPA 9320	466410		
92562849005	BRGWA-6S	EPA 9320	466410		
92562849001	BRGWA-5S	Total Radium Calculation	469110		
92562849002	BRGWA-5I	Total Radium Calculation	469110		
92562849003	BRGWA-2S	Total Radium Calculation	469110		
92562849004	BRGWA-2I	Total Radium Calculation	469110		
92562849005	BRGWA-6S	Total Radium Calculation	469110		

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:

Project #:

WO#: 92562849

Courier: Fed Ex UPS USPS Other
 Commercial Pace Other:



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Container: 9/22/11

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Program? Yes No N/A

Thermometer: Wet Bulb ID Dry Bulb ID Inset Blue None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (+/-) 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): 1.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check map)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input 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 (CT2 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Both 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 CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	W		
Headspace in YDA Vials (YS-6hrs)?	<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

List ID of spill 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-CL-033-Rev.07

Document Revised: October 18, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolina 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/RO15 (water) DOC, LUM

** Bottom half of box is to list number of bottles

Project #

WO# : 92562849

PH: NMG

Due Date: 10/13/21

CLIENT : GR-GR Power

Sample ID	Container	Preservative	Volume	Material	Notes
AP10-125 ml Plastic Unpreserved (N/A) (D-1)					
AP10-250 ml Plastic Unpreserved (N/A)					
AP10-500 ml Plastic Unpreserved (N/A)					
AP11-1 liter Plastic Unpreserved (N/A)					
AP15-125 ml Plastic H2SO4 (pH < 2) (D-1)					
AP15-250 ml plastic H2SO4 (pH < 2)					
AP15-125 ml Plastic 2N Acetate & NaOH (D-0)					
AP15-125 ml Plastic NaOH (pH > 12) (D-1)					
AP15-1 liter Amber Unpreserved (N/A) (D-1)					
AG100-1 liter Amber HCl (pH < 2)					
AG200-250 ml Amber Unpreserved (N/A) (D-1)					
AG215-1 liter Amber H2SO4 (pH < 2)					
AG215-250 ml Amber H2SO4 (pH < 2)					
AG215(200ml)-250 ml Amber HNO3 (N/A)(D-1)					
DO200-40 ml VOA HCl (N/A)					
VO201-40 ml VOA H2SO4 (N/A)					
VO200-40 ml VOA Unp (N/A)					
DO200-40 ml VOA H2SO4 (N/A)					
VO200 (4 vials per lot) H2SO4 lot (N/A)					
VO200 (3 vials per lot) H2SO4 lot (N/A)					
SP201-125 ml Sample Plastic (N/A) - lot					
SP201-250 ml Sample Plastic (N/A) - lot					
AP15-250 ml Plastic (N/A) (D-1) (D-1)					
AG200-250 ml Amber Unpreserved vials (N/A)					
VO200-20 ml Sample Plastic (N/A)					
DO200-40 ml Amber Unpreserved vials (N/A)					

B.P.I.N

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	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 field, 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.

Page: 1 of 1

Section A		Section B		Section C		Section D	
Requester Contact Information		Requester Project Information		Requester Information		Requester Agency	
Requester Name	Requester Title	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address
Requester Phone	Requester Email	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address
Requester Fax	Requester Email	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address
Requester Contact Information		Requester Project Information		Requester Information		Requester Agency	
Requester Name	Requester Title	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address
Requester Phone	Requester Email	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address
Requester Fax	Requester Email	Requester Name	Requester Title	Requester Name	Requester Title	Requester Agency	Requester Address

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	REMARKS	DATE	TIME	INITIALS	REMARKS
1	SAMPLE ID								
2	...								
3	...								
4	...								
5	...								
6	...								
7	...								
8	...								
9	...								
10	...								
11	...								
12	...								

Requested by	Requested on	Requester Name	Requester Title	Requester Agency



Document Name
 Laboratory Sample Receipt (SRR)
 Document No.
 L-0001-001-000-001

Revision: Rev 1.00 October 14th, 2010
 Page 2 of 3
 Issuing Authority
 Pace Corporate Quality Office

Laboratory matching samples:

Ashville Eden Greenwood Hendersonville Raleigh Rockledge Asheville Kannapolis

Sample Container Use: **480-005** Project #

Customer: Commercial Fed Ex UPS USPS Other Project #

Custody Seal Present? Yes No Seal Intact? Yes No Date/Time for an Examined Container: 10/14/10 11:00 AM

Shipping Material: Bubble wrap Bubble bags None Other Biological Hazard Present?

Thermometer: 0.1 0.2 0.5 None Yes No N/A

Cooler Temp: 2.8 Correction Factor: 0.0 Temp should be above freezing (4°C)

Cooler Temp Corrected (°C): 2.8 Temp below 0°C (32°F) requires special handling

UNDA Regulated Spill? Yes No Did sample originate from a foreign source (i.e. shipped from outside the United States, CA, NY or SC) (i.e. a foreign)?

Question	Yes	No	Other	Count	Comments/Discrepancy
Order of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Samples arrived within max. time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Short Hold Time Analysis (30 min)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	
Short Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	
48 Hours Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
Correct Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
Place Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Container Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Approved analysis (Samples held 48 hours)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	
Sample Label within 100°?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	

Handwritten: 10/14/10
 100% of 100% (100%) Yes No Other 10
 The Blank Present? Yes No Other 1
 The Blank Custody Seal Present? Yes No Other 1

Comments/Discrepancy Have Data Analyzed? Yes No

CUSTOMER SIGNATURE/REVISION LABORATORY SIGNATURE

Project Manager SCLWB Review: _____ Date: _____
 Project Manager SPD Review: _____ Date: _____



Document Name
 Sample Condition Log for EPA (MCM)

Document No.
 PACAP-004-000 Rev. 01

Document Revised: October 28, 2020

Page 2 of 3

Issuing Authority
 Pace Analytical Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Interpret with Calcium, Total Oil and Grease, DOC/TOC (max) DOC max

**Bottom half of box is to list number of bottles

Sample	100-150 mg pH (100-150 mg)	150-200 mg pH (150-200 mg)	200-300 mg pH (200-300 mg)	1 liter pH (1 liter)	10 liter pH (10 liter)	100 liter pH (100 liter)	1000 liter pH (1000 liter)	10000 liter pH (10000 liter)	100000 liter pH (100000 liter)	1000000 liter pH (1000000 liter)	10000000 liter pH (10000000 liter)	100000000 liter pH (100000000 liter)	1000000000 liter pH (1000000000 liter)
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

PHIN

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	Volume received	Date preserved or adjusted	Time preservation adjusted	Amount of Adjustments added	LOC#

Note: After preservation, if a preservation affecting health hazard is found from samples, copies of this form will be sent to the North Carolina Department of Health and Human Services.

CHAIN OF CUSTODY COPY | ANALYTICAL REQUISITION SLIP
 This form is used to document the collection, handling, and analysis of evidence for forensic purposes.

Case No. **20-1111**

Requester: Police Department	Request Date: 10/20/2020	Requester Name: Officer Smith	Requester Title: Officer
Request Location: 123 Main St	Requester Phone: 555-1234	Requester Email: smith@pd.com	Requester Address: 123 Main St, City, State, Zip
Requester Agency: Police Department	Requester Agency Address: 123 Main St	Requester Agency Phone: 555-1234	Requester Agency Email: pd@city.com
Requester Agency Contact: Officer Smith	Requester Agency Contact Address: 123 Main St	Requester Agency Contact Phone: 555-1234	Requester Agency Contact Email: smith@pd.com

Item #	Description of Item	Quantity	Unit	Collection Date	Collection Time	Collector	Witness	Chain of Custody		Remarks
								Initials	Signature	
1	Sample A	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample A
2	Sample B	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample B
3	Sample C	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample C
4	Sample D	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample D
5	Sample E	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample E
6	Sample F	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample F
7	Sample G	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample G
8	Sample H	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample H
9	Sample I	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample I
10	Sample J	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample J
11	Sample K	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample K
12	Sample L	1	unit	10/20/2020	14:30	Officer Smith	Officer Jones	Initials	Signature	Sample L

Collector: **Officer Smith** Witness: **Officer Jones**

Collection Date: **10/20/2020** Collection Time: **14:30**

Requester Agency: **Police Department**

Requester Agency Address: **123 Main St**

Requester Agency Phone: **555-1234**

Requester Agency Contact: **Officer Smith**

Requester Agency Contact Address: **123 Main St**

Requester Agency Contact Phone: **555-1234**

Requester Agency Contact Email: **smith@pd.com**

Case No. **20-1111**

Quality Control Sample Performance Assessment

Analysis Method: Manual; Instrument: AP-5; Facility: Hudson County Jail

Date: 1/20/18
 Sample ID: 18010101
 Operator: J. J. [unclear]
 Analyst: J. J. [unclear]

[Signature]
 J. J. [unclear]

Sample Name	Sample Description	Sample ID	Sample Date
18010101	18010101	18010101	1/20/18

Sample Name	Sample Description	Sample ID	Sample Date
18010101	18010101	18010101	1/20/18

Sample Name	Sample Description	Sample ID	Sample Date
18010101	18010101	18010101	1/20/18

Sample Name	Sample Description	Sample ID	Sample Date
18010101	18010101	18010101	1/20/18

Sample Name	Sample Description	Sample ID	Sample Date
18010101	18010101	18010101	1/20/18

18010101 18010101 18010101 18010101 18010101 18010101 18010101 18010101 18010101 18010101

18010101

[Handwritten Signature]



October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCDE BACKGROUND
Pace Project No.: 92562860

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 22, 2021 and September 23, 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-BCDE BACKGROUND

Pace Project No.: 92562860

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

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SAMPLE SUMMARY

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562860001	BRGWA-5S	Water	09/21/21 16:28	09/22/21 17:08
92562860002	BRGWA-5I	Water	09/21/21 12:30	09/22/21 17:08
92562860003	BRGWA-2S	Water	09/22/21 11:25	09/23/21 10:47
92562860004	BRGWA-2I	Water	09/22/21 10:21	09/23/21 10:47
92562860005	BRGWA-6S	Water	09/22/21 11:55	09/23/21 10:47

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92562860001	BRGWA-5S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562860002	BRGWA-5I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562860003	BRGWA-2S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562860004	BRGWA-2I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562860005	BRGWA-6S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		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-BCDE BACKGROUND

Pace Project No.: 92562860

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562860001	BRGWA-5S					
	Performed by	CUSTOME			09/23/21 09:42	
		R				
	pH	6.36	Std. Units		09/23/21 09:42	
EPA 6010D	Calcium	19.1	mg/L	1.0	10/01/21 17:58	
EPA 6020B	Barium	0.038	mg/L	0.0050	10/01/21 14:26	
EPA 6020B	Chromium	0.0044J	mg/L	0.0050	09/30/21 19:41	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:38	B
SM 2540C-2011	Total Dissolved Solids	104	mg/L	10.0	09/27/21 10:20	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	09/24/21 19:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	09/24/21 19:35	
92562860002	BRGWA-5I					
	Performed by	CUSTOME			09/23/21 09:43	
		R				
	pH	6.32	Std. Units		09/23/21 09:43	
EPA 6010D	Calcium	14.1	mg/L	1.0	10/01/21 18:32	
EPA 6020B	Barium	0.025	mg/L	0.0050	10/01/21 14:31	
EPA 6020B	Chromium	0.0064	mg/L	0.0050	09/30/21 19:46	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	09/30/21 19:46	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/30/21 19:46	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	09/30/21 19:46	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:41	B
SM 2540C-2011	Total Dissolved Solids	108	mg/L	10.0	09/27/21 10:20	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	09/24/21 19:51	
EPA 300.0 Rev 2.1 1993	Sulfate	2.3	mg/L	1.0	09/24/21 19:51	
92562860003	BRGWA-2S					
	Performed by	CUSTOME			09/23/21 13:03	
		R				
	pH	6.06	Std. Units		09/23/21 13:03	
EPA 6010D	Calcium	4.3	mg/L	1.0	10/01/21 18:51	
EPA 6020B	Barium	0.0097	mg/L	0.0050	10/01/21 14:43	
EPA 6020B	Chromium	0.0091	mg/L	0.0050	09/30/21 19:58	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:56	B
SM 2540C-2011	Total Dissolved Solids	66.0	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/24/21 20:54	
92562860004	BRGWA-2I					
	Performed by	CUSTOME			09/23/21 13:03	
		R				
	pH	6.78	Std. Units		09/23/21 13:03	
EPA 6010D	Calcium	15.9	mg/L	1.0	10/01/21 18:56	
EPA 6020B	Barium	0.0075	mg/L	0.0050	10/01/21 14:48	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/30/21 20:04	
EPA 6020B	Lithium	0.021J	mg/L	0.030	09/30/21 20:04	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	09/30/21 20:04	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 12:59	B
SM 2540C-2011	Total Dissolved Solids	129	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	09/24/21 21:10	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	09/24/21 21:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562860005	BRGWA-6S					
	Performed by	CUSTOME			09/23/21 13:03	
		R				
	pH	6.48	Std. Units		09/23/21 13:03	
EPA 6010D	Calcium	4.1	mg/L	1.0	10/01/21 19:01	
EPA 6020B	Barium	0.014	mg/L	0.0050	10/01/21 14:54	
EPA 6020B	Chromium	0.014	mg/L	0.0050	09/30/21 20:09	
EPA 6020B	Cobalt	0.00078J	mg/L	0.0050	09/30/21 20:09	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	09/30/21 20:09	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 13:01	B
SM 2540C-2011	Total Dissolved Solids	62.0	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	09/24/21 21:26	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Sample: BRGWA-5S **Lab ID: 92562860001** Collected: 09/21/21 16:28 Received: 09/22/21 17:08 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

Performed by	CUSTOMER				1		09/23/21 09:42		
pH	6.36	Std. Units			1		09/23/21 09:42		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	19.1	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 17:58	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:41	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 19:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 19:41	7440-43-9	
Chromium	0.0044J	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 19:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 19:41	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:38	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	104	mg/L	10.0	10.0	1		09/27/21 10:20		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	3.2	mg/L	1.0	0.60	1		09/24/21 19:35	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		09/24/21 19:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/24/21 19:35	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Sample: BRGWA-5I **Lab ID: 92562860002** Collected: 09/21/21 12:30 Received: 09/22/21 17:08 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

Performed by	CUSTOMER				1		09/23/21 09:43		
pH	6.32	Std. Units			1		09/23/21 09:43		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	14.1	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 18:32	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 19:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:46	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 19:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 19:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 19:46	7440-43-9	
Chromium	0.0064	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:46	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 19:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 19:46	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 19:46	7439-93-2	
Molybdenum	0.0020J	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 19:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 19:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 19:46	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:41	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	108	mg/L	10.0	10.0	1		09/27/21 10:20		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	3.2	mg/L	1.0	0.60	1		09/24/21 19:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 19:51	16984-48-8	
Sulfate	2.3	mg/L	1.0	0.50	1		09/24/21 19:51	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCDE BACKGROUND
 Pace Project No.: 92562860

Sample: BRGWA-2S		Lab ID: 92562860003		Collected: 09/22/21 11:25		Received: 09/23/21 10:47		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		09/23/21 13:03		
pH	6.06	Std. Units			1		09/23/21 13:03		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	4.3	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 18:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/30/21 10:25	09/30/21 19:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:58	7440-38-2	
Barium	0.0097	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 19:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 19:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 19:58	7440-43-9	
Chromium	0.0091	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 19:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 19:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 19:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 19:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 19:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 19:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 19:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:56	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	66.0	mg/L	10.0	10.0	1		09/28/21 10:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		09/24/21 20:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 20:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/24/21 20:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRANCH AP-BCDE BACKGROUND
 Pace Project No.: 92562860

Sample: BRGWA-2I		Lab ID: 92562860004		Collected: 09/22/21 10:21		Received: 09/23/21 10:47		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		09/23/21 13:03		
pH	6.78	Std. Units			1		09/23/21 13:03		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.9	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 18:56	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	09/30/21 10:25	09/30/21 20:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:04	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:04	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:04	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:04	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 12:59	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	129	mg/L	10.0	10.0	1		09/28/21 10:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.7	mg/L	1.0	0.60	1		09/24/21 21:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 21:10	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		09/24/21 21:10	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Sample: BRGWA-6S **Lab ID: 92562860005** Collected: 09/22/21 11:55 Received: 09/23/21 10:47 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

Performed by	CUSTOMER				1		09/23/21 13:03		
pH	6.48	Std. Units			1		09/23/21 13:03		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	4.1	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:01	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:09	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 14:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:09	7440-43-9	
Chromium	0.014	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:09	7440-47-3	
Cobalt	0.00078J	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:09	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:09	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:01	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	62.0	mg/L	10.0	10.0	1		09/28/21 10:57		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	2.1	mg/L	1.0	0.60	1		09/24/21 21:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 21:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/24/21 21:26	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

QC Batch:	650399	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

METHOD BLANK: 3411275 Matrix: Water
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/01/21 17:49	

LABORATORY CONTROL SAMPLE: 3411276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3411277 3411278

Parameter	Units	3411277		3411278		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	14.1	1	15.1	1	105	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

QC Batch: 650022 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

METHOD BLANK: 3409457 Matrix: Water
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/30/21 18:26	
Arsenic	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Barium	mg/L	ND	0.0050	0.00067	09/30/21 18:26	
Beryllium	mg/L	ND	0.00050	0.000054	09/30/21 18:26	
Boron	mg/L	ND	0.040	0.0086	09/30/21 18:26	
Cadmium	mg/L	ND	0.00050	0.00011	09/30/21 18:26	
Chromium	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Cobalt	mg/L	ND	0.0050	0.00039	09/30/21 18:26	
Lead	mg/L	ND	0.0010	0.00089	09/30/21 18:26	
Lithium	mg/L	ND	0.030	0.00073	09/30/21 18:26	
Molybdenum	mg/L	ND	0.010	0.00074	09/30/21 18:26	
Selenium	mg/L	ND	0.0050	0.0014	09/30/21 18:26	
Thallium	mg/L	ND	0.0010	0.00018	09/30/21 18:26	

LABORATORY CONTROL SAMPLE: 3409458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.11	111	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	111	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409459 3409460

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017 Result	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20
Arsenic	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

Parameter	Units	3409459		3409460		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.092	0.1	0.1	0.23	0.24	138	152	75-125	6	20	M1	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.0	108	104	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	99	103	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND
 Pace Project No.: 92562860

QC Batch: 650957 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

METHOD BLANK: 3413779 Matrix: Water
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00011J	0.00020	0.000078	10/06/21 12:20	

LABORATORY CONTROL SAMPLE: 3413780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413781 3413782

Parameter	Units	92562855001		3413782		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00010J	0.0025	0.0024	0.0023	92	89	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND
 Pace Project No.: 92562860

QC Batch: 649295 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: 92562860001, 92562860002

METHOD BLANK: 3405734 Matrix: Water
 Associated Lab Samples: 92562860001, 92562860002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/27/21 10:19	

LABORATORY CONTROL SAMPLE: 3405735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3405736

Parameter	Units	92562283002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	174	168	4	10	

SAMPLE DUPLICATE: 3405737

Parameter	Units	92563313004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	985	1080	9	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND
 Pace Project No.: 92562860

QC Batch: 649491 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: 92562860003, 92562860004, 92562860005

METHOD BLANK: 3406451 Matrix: Water
 Associated Lab Samples: 92562860003, 92562860004, 92562860005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/21 10:55	

LABORATORY CONTROL SAMPLE: 3406452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3406453

Parameter	Units	92563313026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	527	536	2	10	

SAMPLE DUPLICATE: 3406454

Parameter	Units	92562857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	86.0	80.0	7	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

QC Batch: 649204 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: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

METHOD BLANK: 3405091 Matrix: Water
 Associated Lab Samples: 92562860001, 92562860002, 92562860003, 92562860004, 92562860005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/24/21 17:59	
Fluoride	mg/L	ND	0.10	0.050	09/24/21 17:59	
Sulfate	mg/L	ND	1.0	0.50	09/24/21 17:59	

LABORATORY CONTROL SAMPLE: 3405092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.5	91	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405095 3405096

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562974002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.7	50	50	49.7	49.4	94	93	90-110	1	10		
Fluoride	mg/L	0.068J	2.5	2.5	2.7	2.6	103	102	90-110	1	10		
Sulfate	mg/L	94.6	50	50	140	141	90	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405233 3405234

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562855001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.5	50	50	48.5	50.6	90	94	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	5	10		
Sulfate	mg/L	0.51J	50	50	48.8	51.3	97	102	90-110	5	10		

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QUALIFIERS

Project: BRANCH AP-BCDE BACKGROUND

Pace Project No.: 92562860

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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-BCDE BACKGROUND
 Pace Project No.: 92562860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562860001	BRGWA-5S				
92562860002	BRGWA-5I				
92562860003	BRGWA-2S				
92562860004	BRGWA-2I				
92562860005	BRGWA-6S				
92562860001	BRGWA-5S	EPA 3010A	650399	EPA 6010D	650462
92562860002	BRGWA-5I	EPA 3010A	650399	EPA 6010D	650462
92562860003	BRGWA-2S	EPA 3010A	650399	EPA 6010D	650462
92562860004	BRGWA-2I	EPA 3010A	650399	EPA 6010D	650462
92562860005	BRGWA-6S	EPA 3010A	650399	EPA 6010D	650462
92562860001	BRGWA-5S	EPA 3005A	650022	EPA 6020B	650181
92562860002	BRGWA-5I	EPA 3005A	650022	EPA 6020B	650181
92562860003	BRGWA-2S	EPA 3005A	650022	EPA 6020B	650181
92562860004	BRGWA-2I	EPA 3005A	650022	EPA 6020B	650181
92562860005	BRGWA-6S	EPA 3005A	650022	EPA 6020B	650181
92562860001	BRGWA-5S	EPA 7470A	650957	EPA 7470A	651107
92562860002	BRGWA-5I	EPA 7470A	650957	EPA 7470A	651107
92562860003	BRGWA-2S	EPA 7470A	650957	EPA 7470A	651107
92562860004	BRGWA-2I	EPA 7470A	650957	EPA 7470A	651107
92562860005	BRGWA-6S	EPA 7470A	650957	EPA 7470A	651107
92562860001	BRGWA-5S	SM 2540C-2011	649295		
92562860002	BRGWA-5I	SM 2540C-2011	649295		
92562860003	BRGWA-2S	SM 2540C-2011	649491		
92562860004	BRGWA-2I	SM 2540C-2011	649491		
92562860005	BRGWA-6S	SM 2540C-2011	649491		
92562860001	BRGWA-5S	EPA 300.0 Rev 2.1 1993	649204		
92562860002	BRGWA-5I	EPA 300.0 Rev 2.1 1993	649204		
92562860003	BRGWA-2S	EPA 300.0 Rev 2.1 1993	649204		
92562860004	BRGWA-2I	EPA 300.0 Rev 2.1 1993	649204		
92562860005	BRGWA-6S	EPA 300.0 Rev 2.1 1993	649204		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-003-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

CPA POWER

Project #:

WO#: 92562860



Carrier: Fed Ex UPS USPS Other
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/22/14

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Project? Yes No N/A

Thermometer: Wet Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 1.8 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): 1.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check map)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy
Chain of Custody Present?	<input 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 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 SCUR Review: _____

Date: _____

Project Manager SIF Review: _____

Date: _____



Document Name:
 Sample Condition Upon Receipt (SCUR)
 Document No.:
 F-CAR-CL-033-Rev-07

Document Revised: October 18, 2020
 Page 3 of 3
 Issuing Authority:
 Pace Carolina 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, TDC, Oil and Grease, DRO/RO15 (winter) OOC, LUG

**Bottom half of box is to list number of bottles

Project #

WO# : 92562860

PH: NMG

Due Date: 10/08/21

CLIENT: GA-GA Power

Item	BP4U-125 mL Plastic Unpreserved (N/A) (D-)	BP4U-250 mL Plastic Unpreserved (N/A)	BP5U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic 60%HO (pH < 7) (D-)	BP5S-250 mL plastic 60%HO (pH < 7)	BP4S-125 mL Plastic 2N Acetic & NaOH (pH)	BP4S-125 mL Plastic NaOH (pH < 12) (D-)	W02U-1000-ml-wash Clean Jar Unpreserved	AD30U-5 liter Amber Unpreserved (N/A) (D-)	AD30U-1 liter Amber HO (pH < 7)	AD10U-250 mL Amber Unpreserved (N/A) (D-)	AD15-1 liter Amber 60%HO (pH < 7)	AD35-250 mL Amber 60%HO (pH < 7)	AD35(OCM)-250 mL Amber 60%HO (N/A)(D-)	D02U-40 mL VOA HO (N/A)	V02U-40 mL VOA Na2S2O3 (N/A)	V02U-40 mL VOA Vmp (N/A)	D02P-40 mL VOA 60%HO (N/A)	V02U 16 vials per 100-5015 LR (N/A)	V100U 13 vials per 100-5015 LR (N/A)	BP5T-125 mL Sterile Plastic (N/A - test)	BP5T-250 mL Sterile Plastic (N/A - test)	BP5U-250 mL Plastic 60%HO (N/A 3 7)	AD30U-500 mL Amber Unpreserved vials (N/A)	V02U-20 mL Scintillation vials (N/A)	D02U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

B.P.I.N.

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 DCMH Certification Office (i.e. Out of field, 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.

Page: 1 of 1

Section 1 Requestor Information	Section 2 Analytical Request Information	Section 3 Sample Information	Section 4 Requestor Signature
Requestor Name: <u>George Brown</u> Requestor Title: <u>Chief of Police</u> Requestor Address: <u>1234 Main St</u> Requestor City: <u>San Francisco, CA 94101</u> Requestor Phone: <u>415-555-1234</u>	Requestor Agency: <u>San Francisco Police Dept</u> Requestor Contact: <u>John Doe</u> Requestor Email: <u>john.doe@sfpd.org</u> Requestor Date: <u>10/26/2023</u>	Sample ID: <u>2023-10-26-001</u> Sample Type: <u>Seizure - Evidence</u> Sample Location: <u>Room 100</u> Sample Date: <u>10/26/2023</u>	Requestor Signature: _____ Requestor Title: _____

ITEM #	Description	Quantity	Unit	Material	Analysis Test	Requestor Analysis Method (Y/N)				Residual (Other) (Y/N)
						GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	
1	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
2	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
3	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
4	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
5	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
6	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
7	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
8	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
9	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
10	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
11	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS
12	Seizure - Evidence	1	unit	GC/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS	GC/MS/MS

Section 5 Requestor Signature	Section 6 Requestor Title
<u>John Doe</u>	<u>Chief of Police</u>
Section 7 Requestor Agency	
<u>San Francisco Police Dept</u>	
Section 8 Requestor Date	
<u>10/26/2023</u>	



Document Name
 Laboratory Standard Operating Procedure (SOP)
 Document No.
 Issue 01/01/18 Rev 01

Revision: Rev 001 October 31st, 2018
 Page 2 of 3
 Issuing Authority
 Pace Corporate Quality Office

Laboratory matching samples:

Ashville Eden Greenwood Hendersonville Raleigh Rockledge Asheville Kannapolis

Sample Container Use: 48/6/05

Client Name: GA Power Project ID: _____

Container: Commercial Fed Ex UPS USPS Other _____

Custody Seal Present? Yes No Seal intact? Yes No

Date/Time for an Examined Container: 10/11/18 11:00

Shipping Material: Bubble wrap Bubble bags None Other _____

Thermometer: 0.1°C 0.2°C 0.5°C None

Biological Hazard Present? Yes No N/A

Cooler Temp: 2.8 Correction Factor: 0.0 Type of Ice: Dry Wet None

Cooler Temp Corrected (°C): 2.8

Temp should be above freezing (4°C) Yes No (if yes, out of temperature. Samples are in cooling process for log)

UNDA Regulated Spill? Yes No (water sample)

Did samples originate in a container no longer within the United States (CA, NY or SC) (no, a, or g)? Yes No

Container/Discrepancy	1	2	3	4	5	6	7	8	9
Order of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Samples arrived within max. time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Short Hold Time Analysis (20 min)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A						
Short Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A						
1. Return Invoice?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Correct Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Place Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Container used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						
Approved analysis (Samples held 48 hours)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A						
Sample Label within 10C?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A						

Inspected in 100% Vials (14 days)? Yes No N/A

Free Bags Present? Yes No N/A

Free Bags Custody Seal Present? Yes No N/A

Comments/Issues/Discrepancy: _____

Free Bags Analyzed? Yes No

Lab ID of each container: _____

Client and/or Specimen Solution: _____

Prepared by: _____ Date/TIME: _____

Project Manager SCLWB Review: _____ Date: _____

Project Manager SPD Review: _____ Date: _____



*Check mark top half of box if pH and/or disinfection is verified and within the acceptance range for preservation samples.

Interpret with Caution, TOC OI and Growth: SPECIFIED (mark) DOC: mark

**Bottom half of box is to list number of bottles

Project #

Serial	1800-185 mg Phos (preserved) (1/25/10)	1800-190 mg Phos (preserved) (1/25/10)	1800-195 mg Phos (preserved) (1/25/10)	1800-200 mg Phos (preserved) (1/25/10)	1800-205 mg Phos (preserved) (1/25/10)	1800-210 mg Phos (preserved) (1/25/10)	1800-215 mg Phos (preserved) (1/25/10)	1800-220 mg Phos (preserved) (1/25/10)	1800-225 mg Phos (preserved) (1/25/10)	1800-230 mg Phos (preserved) (1/25/10)	1800-235 mg Phos (preserved) (1/25/10)	1800-240 mg Phos (preserved) (1/25/10)	1800-245 mg Phos (preserved) (1/25/10)	1800-250 mg Phos (preserved) (1/25/10)	1800-255 mg Phos (preserved) (1/25/10)	1800-260 mg Phos (preserved) (1/25/10)	1800-265 mg Phos (preserved) (1/25/10)	1800-270 mg Phos (preserved) (1/25/10)	1800-275 mg Phos (preserved) (1/25/10)	1800-280 mg Phos (preserved) (1/25/10)	1800-285 mg Phos (preserved) (1/25/10)	1800-290 mg Phos (preserved) (1/25/10)	1800-295 mg Phos (preserved) (1/25/10)	1800-300 mg Phos (preserved) (1/25/10)		
1																										
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PHOS

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PHOS

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	Volume received	Date preserved or adjusted	Time preservation adjusted	Amount of preservative added	LOC#

Note: After preservation is completed, affecting both level of using preservation, copies of this form will be sent to the North Carolina Drinking Water Office for their use. Additional preservation, but of being incorrect, is not allowed.

10/1/2019

CHAIN OF CUSTODY COPY 1 ANALYTICAL REQUISITION
 (This form is to be used for all Chain of Custody (COC) samples.)

Form 10-100 (Rev. 10/1/19) Page 1 of 2

Agency: San Diego County Sheriff's Department Date: 10/1/2019 Time: 10:00 AM	Case No.: 19-00000000 Sub Case No.: 19-00000000	Station: San Diego County Sheriff's Department Officer: 10000000	Requested By: 10000000
---	--	---	-------------------------------

Item #	Description of Item	Quantity	Unit	Date/Time	Collector	Signature	Chain of Custody		Remarks
							Received	Released	
1	Sample 01	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 01
2	Sample 02	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 02
3	Sample 03	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 03
4	Sample 04	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 04
5	Sample 05	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 05
6	Sample 06	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 06
7	Sample 07	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 07
8	Sample 08	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 08
9	Sample 09	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 09
10	Sample 10	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 10
11	Sample 11	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 11
12	Sample 12	1	unit	10/1/2019 10:00 AM	10000000	[Signature]			Sample 12

San Diego County Sheriff's Department

10/1/2019 10:00 AM

10/1/2019 10:00 AM



October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-E
Pace Project No.: 92562974

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 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-E

Pace Project No.: 92562974

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-E

Pace Project No.: 92562974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562974001	BRGWC-17S	Water	09/22/21 12:09	09/23/21 10:47
92562974002	BRGWC-33S	Water	09/22/21 15:10	09/23/21 10:47
92562974003	BRGWC-34S	Water	09/22/21 17:20	09/23/21 10:47
92562974004	BRGWC-36S	Water	09/22/21 10:09	09/23/21 10:47
92562974005	EB-1	Water	09/22/21 17:00	09/23/21 10:47
92562974006	FB-1	Water	09/22/21 15:30	09/23/21 10:47
92562974007	BRGWC-35S	Water	09/23/21 10:05	09/23/21 17:10
92562974008	BRGWC-37S	Water	09/23/21 12:40	09/23/21 17:10
92562974009	BRGWC-38S	Water	09/23/21 11:20	09/23/21 17:10
92562974010	DUP-1	Water	09/23/21 00:00	09/23/21 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E

Pace Project No.: 92562974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92562974001	BRGWC-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974002	BRGWC-33S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974003	BRGWC-34S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974004	BRGWC-36S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974005	EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974006	FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974007	BRGWC-35S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92562974008	BRGWC-37S	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E

Pace Project No.: 92562974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92562974009	BRGWC-38S	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92562974010	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		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

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SUMMARY OF DETECTION

Project: BRANCH AP-E
 Pace Project No.: 92562974

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562974001	BRGWC-17S					
	Performed by	CUSTOME			09/23/21 13:09	
		R				
	pH	6.22	Std. Units		09/23/21 13:09	
EPA 6010D	Calcium	36.4	mg/L	1.0	10/01/21 19:05	
EPA 6020B	Barium	0.043	mg/L	0.0050	10/01/21 15:00	
EPA 6020B	Boron	0.020J	mg/L	0.040	09/30/21 20:15	
EPA 6020B	Chromium	0.0091	mg/L	0.0050	09/30/21 20:15	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	09/30/21 20:15	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	09/30/21 20:15	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 13:04	B
SM 2540C-2011	Total Dissolved Solids	323	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/24/21 21:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/24/21 21:42	
EPA 300.0 Rev 2.1 1993	Sulfate	123	mg/L	3.0	09/25/21 04:53	
92562974002	BRGWC-33S					
	Performed by	CUSTOME			09/23/21 13:09	
		R				
	pH	4.81	Std. Units		09/23/21 13:09	
EPA 6010D	Calcium	28.9	mg/L	1.0	10/01/21 19:10	
EPA 6020B	Barium	0.019	mg/L	0.0050	10/01/21 15:06	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	09/30/21 20:21	
EPA 6020B	Boron	1.1	mg/L	0.040	09/30/21 20:21	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	09/30/21 20:21	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	09/30/21 20:21	
EPA 6020B	Lithium	0.0080J	mg/L	0.030	09/30/21 20:21	
EPA 7470A	Mercury	0.00012J	mg/L	0.00020	10/06/21 13:07	B
SM 2540C-2011	Total Dissolved Solids	190	mg/L	10.0	09/28/21 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	09/24/21 21:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	09/24/21 21:58	
EPA 300.0 Rev 2.1 1993	Sulfate	94.6	mg/L	2.0	09/25/21 05:08	
92562974003	BRGWC-34S					
	Performed by	CUSTOME			09/23/21 13:09	
		R				
	pH	5.93	Std. Units		09/23/21 13:09	
EPA 6010D	Calcium	76.9	mg/L	1.0	10/01/21 19:24	
EPA 6020B	Barium	0.021	mg/L	0.0050	10/01/21 15:44	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	09/30/21 20:26	
EPA 6020B	Boron	2.2	mg/L	0.040	09/30/21 20:26	
EPA 6020B	Cadmium	0.00033J	mg/L	0.00050	09/30/21 20:26	
EPA 6020B	Cobalt	0.0075	mg/L	0.0050	09/30/21 20:26	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	10/06/21 13:09	B
SM 2540C-2011	Total Dissolved Solids	406	mg/L	10.0	09/29/21 18:44	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/24/21 22:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/24/21 22:46	
EPA 300.0 Rev 2.1 1993	Sulfate	232	mg/L	5.0	09/25/21 06:27	

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SUMMARY OF DETECTION

Project: BRANCH AP-E

Pace Project No.: 92562974

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562974004	BRGWC-36S					
	Performed by	CUSTOME			09/23/21 13:09	
		R				
	pH	5.53	Std. Units		09/23/21 13:09	
EPA 6010D	Calcium	53.7	mg/L	1.0	10/01/21 19:29	
EPA 6020B	Barium	0.028	mg/L	0.0050	09/30/21 20:44	
EPA 6020B	Beryllium	0.000084J	mg/L	0.00050	09/30/21 20:44	
EPA 6020B	Boron	1.1	mg/L	0.040	09/30/21 20:44	
EPA 6020B	Chromium	0.0065	mg/L	0.0050	09/30/21 20:44	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	09/30/21 20:44	
EPA 6020B	Selenium	0.0032J	mg/L	0.0050	09/30/21 20:44	
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 13:12	B
SM 2540C-2011	Total Dissolved Solids	457	mg/L	10.0	09/29/21 18:44	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	09/24/21 23:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.10	09/24/21 23:02	
EPA 300.0 Rev 2.1 1993	Sulfate	234	mg/L	5.0	09/25/21 06:43	
92562974005	EB-1					
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 13:15	B
92562974006	FB-1					
EPA 7470A	Mercury	0.00010J	mg/L	0.00020	10/06/21 13:22	B
92562974007	BRGWC-35S					
	Performed by	CUSTOME			09/24/21 09:54	
		R				
	pH	6.08	Std. Units		09/24/21 09:54	
EPA 6010D	Calcium	70.5	mg/L	1.0	10/01/21 19:44	
EPA 6020B	Barium	0.036	mg/L	0.0050	09/30/21 21:01	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	09/30/21 21:01	
EPA 6020B	Boron	2.0	mg/L	0.040	09/30/21 21:01	
EPA 6020B	Chromium	0.0065	mg/L	0.0050	09/30/21 21:01	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	09/30/21 21:01	
EPA 7470A	Mercury	0.00011J	mg/L	0.00020	10/06/21 13:25	B
SM 2540C-2011	Total Dissolved Solids	511	mg/L	10.0	09/29/21 19:08	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	09/27/21 05:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	09/27/21 05:34	
EPA 300.0 Rev 2.1 1993	Sulfate	258	mg/L	6.0	09/27/21 14:18	
92562974008	BRGWC-37S					
	Performed by	CUSTOME			09/24/21 09:54	
		R				
	pH	5.85	Std. Units		09/24/21 09:54	
EPA 6010D	Calcium	3.7	mg/L	1.0	10/01/21 19:48	
EPA 6020B	Barium	0.027	mg/L	0.0050	09/30/21 21:07	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	09/30/21 21:07	
EPA 7470A	Mercury	0.00011J	mg/L	0.00020	10/06/21 13:28	B
SM 2540C-2011	Total Dissolved Solids	49.0	mg/L	10.0	09/29/21 19:08	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	09/27/21 05:49	

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SUMMARY OF DETECTION

Project: BRANCH AP-E

Pace Project No.: 92562974

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92562974009	BRGWC-38S					
	Performed by	CUSTOME			09/24/21 09:55	
		R				
	pH	4.05	Std. Units		09/24/21 09:55	
EPA 6010D	Calcium	36.8	mg/L	1.0	10/01/21 19:53	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	10/01/21 17:16	
EPA 6020B	Barium	0.014	mg/L	0.0050	10/01/21 17:16	
EPA 6020B	Beryllium	0.0071	mg/L	0.00050	10/01/21 17:16	
EPA 6020B	Boron	1.4	mg/L	0.040	10/01/21 17:16	
EPA 6020B	Cadmium	0.00048J	mg/L	0.00050	10/01/21 17:16	
EPA 6020B	Chromium	0.0040J	mg/L	0.0050	10/01/21 17:16	
EPA 6020B	Cobalt	0.17	mg/L	0.0050	10/01/21 17:16	
EPA 6020B	Lithium	0.019J	mg/L	0.030	10/01/21 17:16	
EPA 6020B	Selenium	0.031	mg/L	0.0050	10/01/21 17:16	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/01/21 17:16	
EPA 7470A	Mercury	0.00022	mg/L	0.00020	10/06/21 13:30	B
SM 2540C-2011	Total Dissolved Solids	528	mg/L	20.0	09/29/21 19:08	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	09/27/21 06:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.85	mg/L	0.10	09/27/21 06:04	
EPA 300.0 Rev 2.1 1993	Sulfate	318	mg/L	7.0	09/27/21 14:32	
92562974010	DUP-1					
EPA 6010D	Calcium	67.9	mg/L	1.0	10/01/21 19:58	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	10/01/21 17:39	
EPA 6020B	Barium	0.036	mg/L	0.0050	10/01/21 17:39	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	10/01/21 17:39	
EPA 6020B	Boron	1.9	mg/L	0.040	10/01/21 17:39	
EPA 6020B	Chromium	0.0057	mg/L	0.0050	10/01/21 17:39	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	10/01/21 17:39	
EPA 7470A	Mercury	0.00011J	mg/L	0.00020	10/06/21 13:33	B
SM 2540C-2011	Total Dissolved Solids	514	mg/L	10.0	09/29/21 19:08	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	09/27/21 06:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	09/27/21 06:49	M1
EPA 300.0 Rev 2.1 1993	Sulfate	258	mg/L	6.0	09/27/21 14:47	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-17S **Lab ID: 92562974001** Collected: 09/22/21 12:09 Received: 09/23/21 10:47 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

Performed by	CUSTOMER				1		09/23/21 13:09		
pH	6.22	Std. Units			1		09/23/21 13:09		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	36.4	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:05	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:15	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 15:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:15	7440-41-7	
Boron	0.020J	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:15	7440-43-9	
Chromium	0.0091	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:15	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:15	7439-98-7	
Selenium	0.0015J	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:15	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:04	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	323	mg/L	10.0	10.0	1		09/28/21 10:57		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	4.6	mg/L	1.0	0.60	1		09/24/21 21:42	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/24/21 21:42	16984-48-8	
Sulfate	123	mg/L	3.0	1.5	3		09/25/21 04:53	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-33S **Lab ID: 92562974002** Collected: 09/22/21 15:10 Received: 09/23/21 10:47 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

Performed by	CUSTOMER				1		09/23/21 13:09		
pH	4.81	Std. Units			1		09/23/21 13:09		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	28.9	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:10	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 20:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:21	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 15:06	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:21	7440-41-7	
Boron	1.1	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:21	7440-42-8	
Cadmium	0.00019J	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:21	7440-47-3	
Cobalt	0.024	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:21	7439-92-1	
Lithium	0.0080J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:21	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00012J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:07	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	190	mg/L	10.0	10.0	1		09/28/21 10:57		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	2.7	mg/L	1.0	0.60	1		09/24/21 21:58	16887-00-6	
Fluoride	0.068J	mg/L	0.10	0.050	1		09/24/21 21:58	16984-48-8	
Sulfate	94.6	mg/L	2.0	1.0	2		09/25/21 05:08	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-34S **Lab ID: 92562974003** Collected: 09/22/21 17:20 Received: 09/23/21 10:47 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

Performed by	CUSTOMER				1		09/23/21 13:09		
pH	5.93	Std. Units			1		09/23/21 13:09		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	76.9	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:24	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:26	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/30/21 10:25	10/01/21 15:44	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:26	7440-41-7	
Boron	2.2	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:26	7440-42-8	
Cadmium	0.00033J	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:26	7440-47-3	
Cobalt	0.0075	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	10/01/21 15:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	10/01/21 15:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:26	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00015J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:09	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	406	mg/L	10.0	10.0	1		09/29/21 18:44		
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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		09/24/21 22:46	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/24/21 22:46	16984-48-8	
Sulfate	232	mg/L	5.0	2.5	5		09/25/21 06:27	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-36S **Lab ID: 92562974004** Collected: 09/22/21 10:09 Received: 09/23/21 10:47 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

Performed by	CUSTOMER				1		09/23/21 13:09		
pH	5.53	Std. Units			1		09/23/21 13:09		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	53.7	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:29	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:44	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	09/30/21 10:25	09/30/21 20:44	7440-39-3	
Beryllium	0.000084J	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:44	7440-41-7	
Boron	1.1	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:44	7440-43-9	
Chromium	0.0065	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:44	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:44	7439-98-7	
Selenium	0.0032J	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:44	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:12	7439-97-6	B
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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		09/29/21 18:44		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	7.1	mg/L	1.0	0.60	1		09/24/21 23:02	16887-00-6	
Fluoride	0.054J	mg/L	0.10	0.050	1		09/24/21 23:02	16984-48-8	
Sulfate	234	mg/L	5.0	2.5	5		09/25/21 06:43	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: EB-1 **Lab ID: 92562974005** Collected: 09/22/21 17:00 Received: 09/23/21 10:47 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	10/01/21 13:30	10/01/21 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	09/30/21 10:25	09/30/21 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:49	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/30/21 10:25	09/30/21 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:15	7439-97-6	B
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		09/29/21 18:44		
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		09/24/21 23:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/21 23:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/24/21 23:50	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: FB-1 **Lab ID: 92562974006** Collected: 09/22/21 15:30 Received: 09/23/21 10:47 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	10/01/21 13:30	10/01/21 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	09/30/21 10:25	09/30/21 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/30/21 10:25	09/30/21 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 20:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 20:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 20:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 20:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 20:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:22	7439-97-6	B
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		09/29/21 18:44		
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		09/25/21 00:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/25/21 00:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/25/21 00:06	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-35S **Lab ID: 92562974007** Collected: 09/23/21 10:05 Received: 09/23/21 17:10 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

Performed by	CUSTOMER				1		09/24/21 09:54		
pH	6.08	Std. Units			1		09/24/21 09:54		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	70.5	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:44	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 21:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 21:01	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00067	1	09/30/21 10:25	09/30/21 21:01	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 21:01	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 21:01	7440-43-9	
Chromium	0.0065	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 21:01	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 21:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 21:01	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00011J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:25	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	511	mg/L	10.0	10.0	1		09/29/21 19:08		
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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		09/27/21 05:34	16887-00-6	
Fluoride	0.073J	mg/L	0.10	0.050	1		09/27/21 05:34	16984-48-8	
Sulfate	258	mg/L	6.0	3.0	6		09/27/21 14:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-37S **Lab ID: 92562974008** Collected: 09/23/21 12:40 Received: 09/23/21 17:10 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

Performed by	CUSTOMER				1		09/24/21 09:54		
pH	5.85	Std. Units			1		09/24/21 09:54		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	3.7	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:48	7440-70-2	
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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	0.00078	1	09/30/21 10:25	09/30/21 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 21:07	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	09/30/21 10:25	09/30/21 21:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/30/21 10:25	09/30/21 21:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/30/21 10:25	09/30/21 21:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/30/21 10:25	09/30/21 21:07	7440-43-9	
Chromium	0.0016J	mg/L	0.0050	0.0011	1	09/30/21 10:25	09/30/21 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/30/21 10:25	09/30/21 21:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/30/21 10:25	09/30/21 21:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/30/21 10:25	09/30/21 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/30/21 10:25	09/30/21 21:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/30/21 10:25	09/30/21 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/30/21 10:25	09/30/21 21:07	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00011J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:28	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	49.0	mg/L	10.0	10.0	1		09/29/21 19:08		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	1.9	mg/L	1.0	0.60	1		09/27/21 05:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/21 05:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/27/21 05:49	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: BRGWC-38S **Lab ID: 92562974009** Collected: 09/23/21 11:20 Received: 09/23/21 17:10 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

Performed by	CUSTOMER				1		09/24/21 09:55		
pH	4.05	Std. Units			1		09/24/21 09:55		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	36.8	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:53	7440-70-2	
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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	0.00078	1	10/01/21 10:25	10/01/21 17:16	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	10/01/21 10:25	10/01/21 17:16	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	10/01/21 10:25	10/01/21 17:16	7440-39-3	
Beryllium	0.0071	mg/L	0.00050	0.000054	1	10/01/21 10:25	10/01/21 17:16	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	10/01/21 10:25	10/01/21 17:16	7440-42-8	
Cadmium	0.00048J	mg/L	0.00050	0.00011	1	10/01/21 10:25	10/01/21 17:16	7440-43-9	
Chromium	0.0040J	mg/L	0.0050	0.0011	1	10/01/21 10:25	10/01/21 17:16	7440-47-3	
Cobalt	0.17	mg/L	0.0050	0.00039	1	10/01/21 10:25	10/01/21 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/01/21 10:25	10/01/21 17:16	7439-92-1	
Lithium	0.019J	mg/L	0.030	0.00073	1	10/01/21 10:25	10/01/21 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/01/21 10:25	10/01/21 17:16	7439-98-7	
Selenium	0.031	mg/L	0.0050	0.0014	1	10/01/21 10:25	10/01/21 17:16	7782-49-2	
Thallium	0.00022J	mg/L	0.0010	0.00018	1	10/01/21 10:25	10/01/21 17:16	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00022	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:30	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	528	mg/L	20.0	20.0	1		09/29/21 19:08		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	6.0	mg/L	1.0	0.60	1		09/27/21 06:04	16887-00-6	
Fluoride	0.85	mg/L	0.10	0.050	1		09/27/21 06:04	16984-48-8	
Sulfate	318	mg/L	7.0	3.5	7		09/27/21 14:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-E

Pace Project No.: 92562974

Sample: DUP-1 **Lab ID:** 92562974010 Collected: 09/23/21 00:00 Received: 09/23/21 17:10 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	67.9	mg/L	1.0	0.12	1	10/01/21 13:30	10/01/21 19:58	7440-70-2	
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	10/01/21 10:25	10/01/21 17:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/01/21 10:25	10/01/21 17:39	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00067	1	10/01/21 10:25	10/01/21 17:39	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	10/01/21 10:25	10/01/21 17:39	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	10/01/21 10:25	10/01/21 17:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/01/21 10:25	10/01/21 17:39	7440-43-9	
Chromium	0.0057	mg/L	0.0050	0.0011	1	10/01/21 10:25	10/01/21 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/01/21 10:25	10/01/21 17:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/01/21 10:25	10/01/21 17:39	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00073	1	10/01/21 10:25	10/01/21 17:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/01/21 10:25	10/01/21 17:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/01/21 10:25	10/01/21 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/01/21 10:25	10/01/21 17:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00011J	mg/L	0.00020	0.000078	1	10/06/21 09:30	10/06/21 13:33	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	514	mg/L	10.0	10.0	1		09/29/21 19:08		
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		09/27/21 06:49	16887-00-6	
Fluoride	0.071J	mg/L	0.10	0.050	1		09/27/21 06:49	16984-48-8	M1
Sulfate	258	mg/L	6.0	3.0	6		09/27/21 14:47	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-E
 Pace Project No.: 92562974

QC Batch: 650399 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008, 92562974009, 92562974010

METHOD BLANK: 3411275 Matrix: Water
 Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008, 92562974009, 92562974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/01/21 17:49	

LABORATORY CONTROL SAMPLE: 3411276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3411277 3411278

Parameter	Units	92562860002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.1	1	1	15.1	15.0	105	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch:	650022	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
Associated Lab Samples:		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008			

METHOD BLANK:	3409457	Matrix:	Water
Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/30/21 18:26	
Arsenic	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Barium	mg/L	ND	0.0050	0.00067	09/30/21 18:26	
Beryllium	mg/L	ND	0.00050	0.000054	09/30/21 18:26	
Boron	mg/L	ND	0.040	0.0086	09/30/21 18:26	
Cadmium	mg/L	ND	0.00050	0.00011	09/30/21 18:26	
Chromium	mg/L	ND	0.0050	0.0011	09/30/21 18:26	
Cobalt	mg/L	ND	0.0050	0.00039	09/30/21 18:26	
Lead	mg/L	ND	0.0010	0.00089	09/30/21 18:26	
Lithium	mg/L	ND	0.030	0.00073	09/30/21 18:26	
Molybdenum	mg/L	ND	0.010	0.00074	09/30/21 18:26	
Selenium	mg/L	ND	0.0050	0.0014	09/30/21 18:26	
Thallium	mg/L	ND	0.0010	0.00018	09/30/21 18:26	

LABORATORY CONTROL SAMPLE: 3409458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.11	111	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	111	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409459 3409460

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

Parameter	Units	3409459		3409460		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562820017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20		
Barium	mg/L	0.092	0.1	0.1	0.23	0.24	138	152	75-125	6	20	M1	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.0	108	104	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	99	103	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	108	114	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 650361

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92562974009, 92562974010

METHOD BLANK: 3411035

Matrix: Water

Associated Lab Samples: 92562974009, 92562974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	10/01/21 17:04	
Arsenic	mg/L	ND	0.0050	0.0011	10/01/21 17:04	
Barium	mg/L	ND	0.0050	0.00067	10/01/21 17:04	
Beryllium	mg/L	ND	0.00050	0.000054	10/01/21 17:04	
Boron	mg/L	ND	0.040	0.0086	10/01/21 17:04	
Cadmium	mg/L	ND	0.00050	0.00011	10/01/21 17:04	
Chromium	mg/L	ND	0.0050	0.0011	10/01/21 17:04	
Cobalt	mg/L	ND	0.0050	0.00039	10/01/21 17:04	
Lead	mg/L	ND	0.0010	0.00089	10/01/21 17:04	
Lithium	mg/L	ND	0.030	0.00073	10/01/21 17:04	
Molybdenum	mg/L	ND	0.010	0.00074	10/01/21 17:04	
Selenium	mg/L	ND	0.0050	0.0014	10/01/21 17:04	
Thallium	mg/L	ND	0.0010	0.00018	10/01/21 17:04	

LABORATORY CONTROL SAMPLE: 3411036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3411037

3411038

Parameter	Units	92562974009 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	112	113	75-125	1	20	
Arsenic	mg/L	0.0020J	0.1	0.1	0.10	0.10	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-E
 Pace Project No.: 92562974

Parameter	Units	3411037		3411038		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562974009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.014	0.1	0.1	0.12	0.12	105	106	75-125	0	20		
Beryllium	mg/L	0.0071	0.1	0.1	0.099	0.098	92	91	75-125	1	20		
Boron	mg/L	1.4	1	1	2.3	2.4	84	95	75-125	5	20		
Cadmium	mg/L	0.00048J	0.1	0.1	0.10	0.10	103	101	75-125	2	20		
Chromium	mg/L	0.0040J	0.1	0.1	0.11	0.11	101	101	75-125	0	20		
Cobalt	mg/L	0.17	0.1	0.1	0.28	0.27	106	100	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.090	0.090	90	90	75-125	0	20		
Lithium	mg/L	0.019J	0.1	0.1	0.11	0.11	95	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	109	112	75-125	3	20		
Selenium	mg/L	0.031	0.1	0.1	0.13	0.13	103	101	75-125	2	20		
Thallium	mg/L	0.00022J	0.1	0.1	0.089	0.090	89	90	75-125	1	20		

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 650957 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008, 92562974009, 92562974010

METHOD BLANK: 3413779 Matrix: Water
 Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006, 92562974007, 92562974008, 92562974009, 92562974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00011J	0.00020	0.000078	10/06/21 12:20	

LABORATORY CONTROL SAMPLE: 3413780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413781 3413782

Parameter	Units	92562855001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00010J	0.0025	0.0025	0.0024	0.0023	92	89	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 649491	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: 92562974001, 92562974002

METHOD BLANK: 3406451 Matrix: Water
 Associated Lab Samples: 92562974001, 92562974002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/21 10:55	

LABORATORY CONTROL SAMPLE: 3406452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3406453

Parameter	Units	92563313026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	527	536	2	10	

SAMPLE DUPLICATE: 3406454

Parameter	Units	92562857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	86.0	80.0	7	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 649722	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: 92562974003, 92562974004, 92562974005, 92562974006

METHOD BLANK: 3407437 Matrix: Water
 Associated Lab Samples: 92562974003, 92562974004, 92562974005, 92562974006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/29/21 18:44	

LABORATORY CONTROL SAMPLE: 3407438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	90-111	

SAMPLE DUPLICATE: 3407439

Parameter	Units	92562974003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	406	412	1	10	

SAMPLE DUPLICATE: 3407440

Parameter	Units	92563313019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	47.0	8	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 649984	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: 92562974007, 92562974008, 92562974009, 92562974010

METHOD BLANK: 3409087 Matrix: Water
 Associated Lab Samples: 92562974007, 92562974008, 92562974009, 92562974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/29/21 19:07	

LABORATORY CONTROL SAMPLE: 3409088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	90-111	

SAMPLE DUPLICATE: 3409089

Parameter	Units	92563085003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	88.0	30	10	D6

SAMPLE DUPLICATE: 3409090

Parameter	Units	92563212005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	53.0	6	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 649204 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: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006

METHOD BLANK: 3405091 Matrix: Water
 Associated Lab Samples: 92562974001, 92562974002, 92562974003, 92562974004, 92562974005, 92562974006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/24/21 17:59	
Fluoride	mg/L	ND	0.10	0.050	09/24/21 17:59	
Sulfate	mg/L	ND	1.0	0.50	09/24/21 17:59	

LABORATORY CONTROL SAMPLE: 3405092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.5	91	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405095 3405096

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562974002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.7	50	50	49.7	49.4	94	93	90-110	1	10		
Fluoride	mg/L	0.068J	2.5	2.5	2.7	2.6	103	102	90-110	1	10		
Sulfate	mg/L	94.6	50	50	140	141	90	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405233 3405234

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92562855001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.5	50	50	48.5	50.6	90	94	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	5	10		
Sulfate	mg/L	0.51J	50	50	48.8	51.3	97	102	90-110	5	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: BRANCH AP-E

Pace Project No.: 92562974

QC Batch: 649414 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: 92562974007, 92562974008, 92562974009

METHOD BLANK: 3406122 Matrix: Water
 Associated Lab Samples: 92562974007, 92562974008, 92562974009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/26/21 23:06	
Fluoride	mg/L	ND	0.10	0.050	09/26/21 23:06	
Sulfate	mg/L	ND	1.0	0.50	09/26/21 23:06	

LABORATORY CONTROL SAMPLE: 3406123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406124 3406125

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92563212001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.1	50	50	56.2	57.0	106	108	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	104	105	90-110	1	10		
Sulfate	mg/L	1.8	50	50	56.4	57.2	109	111	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406126 3406127

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92563212011 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.4	50	50	56.8	57.8	107	109	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	104	106	90-110	2	10		
Sulfate	mg/L	2.3	50	50	57.2	58.2	110	112	90-110	2	10	M1	

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QUALITY CONTROL DATA

Project: BRANCH AP-E

Pace Project No.: 92562974

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: 92562974010

METHOD BLANK: 3406128 Matrix: Water

Associated Lab Samples: 92562974010

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	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							% Rec	% Rec
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	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							% Rec	% Rec
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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QUALIFIERS

Project: BRANCH AP-E
Pace Project No.: 92562974

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
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-E
 Pace Project No.: 92562974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562974001	BRGWC-17S				
92562974002	BRGWC-33S				
92562974003	BRGWC-34S				
92562974004	BRGWC-36S				
92562974007	BRGWC-35S				
92562974008	BRGWC-37S				
92562974009	BRGWC-38S				
92562974001	BRGWC-17S	EPA 3010A	650399	EPA 6010D	650462
92562974002	BRGWC-33S	EPA 3010A	650399	EPA 6010D	650462
92562974003	BRGWC-34S	EPA 3010A	650399	EPA 6010D	650462
92562974004	BRGWC-36S	EPA 3010A	650399	EPA 6010D	650462
92562974005	EB-1	EPA 3010A	650399	EPA 6010D	650462
92562974006	FB-1	EPA 3010A	650399	EPA 6010D	650462
92562974007	BRGWC-35S	EPA 3010A	650399	EPA 6010D	650462
92562974008	BRGWC-37S	EPA 3010A	650399	EPA 6010D	650462
92562974009	BRGWC-38S	EPA 3010A	650399	EPA 6010D	650462
92562974010	DUP-1	EPA 3010A	650399	EPA 6010D	650462
92562974001	BRGWC-17S	EPA 3005A	650022	EPA 6020B	650181
92562974002	BRGWC-33S	EPA 3005A	650022	EPA 6020B	650181
92562974003	BRGWC-34S	EPA 3005A	650022	EPA 6020B	650181
92562974004	BRGWC-36S	EPA 3005A	650022	EPA 6020B	650181
92562974005	EB-1	EPA 3005A	650022	EPA 6020B	650181
92562974006	FB-1	EPA 3005A	650022	EPA 6020B	650181
92562974007	BRGWC-35S	EPA 3005A	650022	EPA 6020B	650181
92562974008	BRGWC-37S	EPA 3005A	650022	EPA 6020B	650181
92562974009	BRGWC-38S	EPA 3005A	650361	EPA 6020B	650438
92562974010	DUP-1	EPA 3005A	650361	EPA 6020B	650438
92562974001	BRGWC-17S	EPA 7470A	650957	EPA 7470A	651107
92562974002	BRGWC-33S	EPA 7470A	650957	EPA 7470A	651107
92562974003	BRGWC-34S	EPA 7470A	650957	EPA 7470A	651107
92562974004	BRGWC-36S	EPA 7470A	650957	EPA 7470A	651107
92562974005	EB-1	EPA 7470A	650957	EPA 7470A	651107
92562974006	FB-1	EPA 7470A	650957	EPA 7470A	651107
92562974007	BRGWC-35S	EPA 7470A	650957	EPA 7470A	651107
92562974008	BRGWC-37S	EPA 7470A	650957	EPA 7470A	651107
92562974009	BRGWC-38S	EPA 7470A	650957	EPA 7470A	651107
92562974010	DUP-1	EPA 7470A	650957	EPA 7470A	651107
92562974001	BRGWC-17S	SM 2540C-2011	649491		
92562974002	BRGWC-33S	SM 2540C-2011	649491		
92562974003	BRGWC-34S	SM 2540C-2011	649722		
92562974004	BRGWC-36S	SM 2540C-2011	649722		
92562974005	EB-1	SM 2540C-2011	649722		
92562974006	FB-1	SM 2540C-2011	649722		
92562974007	BRGWC-35S	SM 2540C-2011	649984		
92562974008	BRGWC-37S	SM 2540C-2011	649984		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-E

Pace Project No.: 92562974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562974009	BRGWC-38S	SM 2540C-2011	649984		
92562974010	DUP-1	SM 2540C-2011	649984		
92562974001	BRGWC-17S	EPA 300.0 Rev 2.1 1993	649204		
92562974002	BRGWC-33S	EPA 300.0 Rev 2.1 1993	649204		
92562974003	BRGWC-34S	EPA 300.0 Rev 2.1 1993	649204		
92562974004	BRGWC-36S	EPA 300.0 Rev 2.1 1993	649204		
92562974005	EB-1	EPA 300.0 Rev 2.1 1993	649204		
92562974006	FB-1	EPA 300.0 Rev 2.1 1993	649204		
92562974007	BRGWC-35S	EPA 300.0 Rev 2.1 1993	649414		
92562974008	BRGWC-37S	EPA 300.0 Rev 2.1 1993	649414		
92562974009	BRGWC-38S	EPA 300.0 Rev 2.1 1993	649414		
92562974010	DUP-1	EPA 300.0 Rev 2.1 1993	649415		

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 Powl 1

Project #:

WO#: 92562974



92562974

Source: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MC 9/29/2

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Virus Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of Ice: Frost Blue None

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) 2.0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (enter optionally, including Hawaii and Puerto Rico)? Yes No

	Yes	No	N/A	Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Quick Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Dispensed analysis: Samples Field Filtered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Includes Date/Time/ID/Analysis Matrix: <u>WT</u>				
Headspace in VOA Vials (>5-min)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10.
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of soil containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCUR Review

Date:

Project Manager SRP Review

Date:



Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-CAR-CS-093-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolina 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, DPO/DO15 (water) DOC, LHM

**Bottom half of box is to list number of bottles

Project #

WO# : 92562974

PH: N/A

Due Date: 10/07/21

CLIENT: GA-GA Power

Item #	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic Unpreserved (N/A) (2-)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-250 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-500 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-125 ml, Plastic HClSO4 (pH < 2) (2-)		/	/	/	/	/	/	/	/	/	/	/	/
BP30-250 ml, plastic HClO3 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-125 ml, Plastic 2N Acetate & NaOH (2-)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-125 ml, Plastic NaOH (pH > 12) (2-)		/	/	/	/	/	/	/	/	/	/	/	/
W50U-Wide mouthed Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG30-1 liter Amber Unpreserved (N/A) (2-)		/	/	/	/	/	/	/	/	/	/	/	/
AG30-1 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG50-250 ml, Amber Unpreserved (N/A) (2-)		/	/	/	/	/	/	/	/	/	/	/	/
AG30-1 liter Amber HClSO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG50-250 ml, Amber HClSO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG30AG30M-250 ml, Amber HClO3 (N/A)(2-)		/	/	/	/	/	/	/	/	/	/	/	/
D030-40 ml, VOA HCl (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V030-40 ml, VOA Na2S2O3 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V030-40 ml, VOA Clp (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
D030-40 ml, VOA HClO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V040 (8 vials per lot)-V015 lot (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V040 (8 vials per lot)-V015 lot (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP30-125 ml, Sterile Plastic (N/A - lot)		/	/	/	/	/	/	/	/	/	/	/	/
BP30-250 ml, Sterile Plastic (N/A - lot)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml, Plastic (N/A)(2-)		/	/	/	/	/	/	/	/	/	/	/	/
AG50-100 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
W50A-50 ml, Scintillation vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
D030-40 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

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 O&HHS Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers).

Signature

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a SPECIAL OCCASION! If relevant fields must be completed accordingly

Page 1 of 2

Section I: Request Information

Requester Name	Requester Title	Requester Department
Requester Phone	Requester Email	Requester Address
Requester Fax	Requester Cell	Requester City/State/Zip
Requester Email	Requester Mobile	Requester Country

Section II: Analytical Request Information

Requester Name	Requester Title	Requester Department
Requester Phone	Requester Email	Requester Address
Requester Fax	Requester Cell	Requester City/State/Zip
Requester Email	Requester Mobile	Requester Country

Section III: Sample Information

Sample ID	Sample Description	Sample Location
Sample Date	Sample Time	Sample Collector
Sample Quantity	Sample Container	Sample Condition

SAMPLE ID
The Chain-of-Custody is a SPECIAL OCCASION! If relevant fields must be completed accordingly

ITEM #	SAMPLE ID	ANALYTICAL REQUEST INFORMATION	DATE	TIME	SAMPLE TYPE AT COLLECTION	PARAMETERS			ANALYTICAL TEST	ANALYTICAL RESULTS (EXPECTED RANGE)				REMARKS (OTHER)
						ORGANOMETRIC - ICM	PCDD/F	PCDF		PCN	PCBN	PCBN	PCBN		PCBN
1	Sample 001	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Sample 002	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Sample 003	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Sample 004	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Sample 005	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Sample 006	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Sample 007	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Sample 008	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Sample 009	...	...	...	...	...	...	...	...	...	...	...	...	...
10	Sample 010	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Sample 011	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Sample 012	...	...	...	...	...	...	...	...	...	...	...	...	...

ANALYTICAL REQUEST INFORMATION	DATE	TIME	ANALYTICAL TEST	ANALYTICAL RESULTS (EXPECTED RANGE)	REMARKS (OTHER)
...
...
...
...
...

John Thompson / spw... 9-21-21



Document Name
 Sample Condition Upon Receipt (SCUR)
 Document No.
 14000-03-02-Rev 00

Document Revised October 28, 2010
 Page 2 of 2
 Issued by:
 Paul C. Heston, Director, OPR

Laboratory receiving samples:

Asheville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Sample Condition Upon Receipt

Client Name
GA POWER
 Project #
 Fine En Bags Bags Other
 Bag

Project #

Quantity and Packaging
 In Seal Bagged In In

Date/Time Received (including time zone) **9/23/2010**

How Were Materials Stored?
 Brown Paper Buck Bags None Other
 Material ID# **THP230** Type of ID Bag Other

Biological Factor (if any)
 Yes No N/A

UNRF (if any) **24** Connection Factor **1**
 Address/Location (if any) **AS**

Items should be added to the SCUR if:
 Samples are of items into a container or are coming across the bag

UNRF FORMS APPLICABLE (if any):
 UNRF Regulated Soil (if any), under sample
 Any application of this form to a transportation mode within the United States (49 CFR 171.30) under hazard?

Do not check if a shipment of hazardous materials is being transported by air, rail, or water.

	Compliance Indicators				Compliance Description
1. Materials uniformly present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
2. Samples received within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
3. Short-Term Time Analysis (1/2 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	
4. Made Your Material Home Response?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	10 Day TAT
5. UNRF (if any)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
6. Correct Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
7. Free Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
8. Contained in UNRF?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
9. Documented Analysis Samples Held + Released?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9	
10. Sample Label with SCUR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
11. In Label Only/Time (TR) Analysis? Matrix	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11	WT
12. Hazardous (if N/A) (if any) (if any)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12	
13. Trip Bag Prepared?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13	
14. Trip Bag Label Only/Time (TR) Analysis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14	

Comments/Issues/Notes Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

UNRF _____

Project Manager SRF Review: _____

SRF _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptable range for distribution samples.

Project #

Example: V08 4476 = PUL 01 and 02 are DPU/BUOY in the PCC, LHM
**Bottom half of box is to be number of bottles

Sample	Sample ID	Sample Location	Sample Date	Sample Time	Sample Volume	Sample pH	Sample Chlorine	Sample Temperature	Sample Notes
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH when received	Date preservation adjusted	Time preservation adjusted	Amount of pH Adjustment	Lot #

Note: Whenever there is a circumstance affecting North Carolina compliance samples, a record of pH adjustment must be kept for the duration of the sample's use. This record should be maintained in the sample's logbook.



November 02, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-E RADS
Pace Project No.: 92562947

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 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 - Greensburg

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-E RADS
Pace Project No.: 92562947

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

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SAMPLE SUMMARY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92562947001	BRGWC-17S	Water	09/22/21 12:09	09/23/21 10:47
92562947002	BRGWC-33S	Water	09/22/21 15:10	09/23/21 10:47
92562947003	BRGWC-34S	Water	09/22/21 17:20	09/23/21 10:47
92562947004	BRGWC-36S	Water	09/22/21 10:09	09/23/21 10:47
92562947005	EB-1	Water	09/22/21 17:00	09/23/21 10:47
92562947006	FB-1	Water	09/22/21 15:30	09/23/21 10:47
92562947007	BRGWC-35S	Water	09/23/21 10:05	09/23/21 17:10
92562947008	BRGWC-37S	Water	09/23/21 12:40	09/23/21 17:10
92562947009	BRGWC-38S	Water	09/23/21 11:20	09/23/21 17:10
92562947010	DUP-1	Water	09/23/21 00:00	09/23/21 17:10

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-E RADS
 Pace Project No.: 92562947

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92562947001	BRGWC-17S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947002	BRGWC-33S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947003	BRGWC-34S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947004	BRGWC-36S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947005	EB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947006	FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947007	BRGWC-35S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947008	BRGWC-37S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947009	BRGWC-38S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92562947010	DUP-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562947001	BRGWC-17S					
EPA 9315	Radium-226	0.0152 ± 0.172 (0.456) C:97% T:NA	pCi/L		10/27/21 08:50	
EPA 9320	Radium-228	0.719 ± 0.584 (1.18) C:66% T:78%	pCi/L		10/13/21 14:12	
Total Radium Calculation	Total Radium	0.734 ± 0.756 (1.64)	pCi/L		10/28/21 17:14	
92562947002	BRGWC-33S					
EPA 9315	Radium-226	-0.00291 ± 0.168 (0.463) C:98% T:NA	pCi/L		10/27/21 08:50	
EPA 9320	Radium-228	0.382 ± 0.423 (0.884) C:65% T:77%	pCi/L		10/18/21 11:42	
Total Radium Calculation	Total Radium	0.382 ± 0.591 (1.35)	pCi/L		10/28/21 17:14	
92562947003	BRGWC-34S					
EPA 9315	Radium-226	0.0669 ± 0.191 (0.464) C:97% T:NA	pCi/L		10/27/21 08:50	
EPA 9320	Radium-228	0.843 ± 0.474 (0.867) C:68% T:85%	pCi/L		10/13/21 14:12	
Total Radium Calculation	Total Radium	0.910 ± 0.665 (1.33)	pCi/L		10/28/21 17:14	
92562947004	BRGWC-36S					
EPA 9315	Radium-226	0.481 ± 0.333 (0.614) C:97% T:NA	pCi/L		10/27/21 08:55	
EPA 9320	Radium-228	0.327 ± 0.403 (0.852) C:69% T:76%	pCi/L		10/13/21 14:12	
Total Radium Calculation	Total Radium	0.808 ± 0.736 (1.47)	pCi/L		10/28/21 17:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562947005	EB-1					
EPA 9315	Radium-226	-0.0902 ± 0.174 (0.522) C:98% T:NA	pCi/L		10/27/21 08:55	
EPA 9320	Radium-228	1.24 ± 0.525 (0.853) C:69% T:84%	pCi/L		10/13/21 14:12	
Total Radium Calculation	Total Radium	1.24 ± 0.699 (1.38)	pCi/L		10/28/21 17:14	
92562947006	FB-1					
EPA 9315	Radium-226	0.0729 ± 0.155 (0.363) C:98% T:NA	pCi/L		10/27/21 08:59	
EPA 9320	Radium-228	0.108 ± 0.416 (0.938) C:69% T:90%	pCi/L		10/13/21 14:12	
Total Radium Calculation	Total Radium	0.181 ± 0.571 (1.30)	pCi/L		10/28/21 17:14	
92562947007	BRGWC-35S					
EPA 9315	Radium-226	0.233 ± 0.209 (0.381) C:95% T:NA	pCi/L		10/27/21 08:59	
EPA 9320	Radium-228	0.161 ± 0.327 (0.722) C:75% T:87%	pCi/L		10/13/21 11:10	
Total Radium Calculation	Total Radium	0.394 ± 0.536 (1.10)	pCi/L		10/28/21 17:14	
92562947008	BRGWC-37S					
EPA 9315	Radium-226	0.0780 ± 0.170 (0.400) C:96% T:NA	pCi/L		10/27/21 08:59	
EPA 9320	Radium-228	-0.907 ± 0.249 (0.721) C:77% T:86%	pCi/L		10/13/21 11:10	
Total Radium Calculation	Total Radium	0.0780 ± 0.419 (1.12)	pCi/L		10/28/21 17:14	

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SUMMARY OF DETECTION

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92562947009	BRGWC-38S					
EPA 9315	Radium-226	0.143 ± 0.190 (0.399) C:98% T:NA	pCi/L		10/27/21 08:59	
EPA 9320	Radium-228	1.26 ± 0.471 (0.701) C:78% T:85%	pCi/L		10/13/21 11:10	
Total Radium Calculation	Total Radium	1.40 ± 0.661 (1.10)	pCi/L		10/28/21 17:14	
92562947010	DUP-1					
EPA 9315	Radium-226	0.0943 ± 0.167 (0.378) C:97% T:NA	pCi/L		10/27/21 08:59	
EPA 9320	Radium-228	0.540 ± 0.370 (0.705) C:76% T:82%	pCi/L		10/13/21 11:10	
Total Radium Calculation	Total Radium	0.634 ± 0.537 (1.08)	pCi/L		10/28/21 17:14	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-17S Lab ID: 92562947001 Collected: 09/22/21 12:09 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0152 ± 0.172 (0.456) C:97% T:NA	pCi/L	10/27/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.719 ± 0.584 (1.18) C:66% T:78%	pCi/L	10/13/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.734 ± 0.756 (1.64)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-33S Lab ID: 92562947002 Collected: 09/22/21 15:10 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00291 ± 0.168 (0.463) C:98% T:NA	pCi/L	10/27/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.382 ± 0.423 (0.884) C:65% T:77%	pCi/L	10/18/21 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.382 ± 0.591 (1.35)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-34S Lab ID: 92562947003 Collected: 09/22/21 17:20 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0669 ± 0.191 (0.464) C:97% T:NA	pCi/L	10/27/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.843 ± 0.474 (0.867) C:68% T:85%	pCi/L	10/13/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.910 ± 0.665 (1.33)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-36S Lab ID: 92562947004 Collected: 09/22/21 10:09 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.481 ± 0.333 (0.614) C:97% T:NA	pCi/L	10/27/21 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.327 ± 0.403 (0.852) C:69% T:76%	pCi/L	10/13/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.808 ± 0.736 (1.47)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Sample: EB-1 **Lab ID: 92562947005** Collected: 09/22/21 17:00 Received: 09/23/21 10:47 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	-0.0902 ± 0.174 (0.522) C:98% T:NA	pCi/L	10/27/21 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.24 ± 0.525 (0.853) C:69% T:84%	pCi/L	10/13/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.699 (1.38)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1 Lab ID: 92562947006 Collected: 09/22/21 15:30 Received: 09/23/21 10:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0729 ± 0.155 (0.363) C:98% T:NA	pCi/L	10/27/21 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.108 ± 0.416 (0.938) C:69% T:90%	pCi/L	10/13/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.181 ± 0.571 (1.30)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-35S Lab ID: 92562947007 Collected: 09/23/21 10:05 Received: 09/23/21 17:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.233 ± 0.209 (0.381) C:95% T:NA	pCi/L	10/27/21 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.161 ± 0.327 (0.722) C:75% T:87%	pCi/L	10/13/21 11:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.394 ± 0.536 (1.10)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-37S Lab ID: 92562947008 Collected: 09/23/21 12:40 Received: 09/23/21 17:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0780 ± 0.170 (0.400) C:96% T:NA	pCi/L	10/27/21 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.907 ± 0.249 (0.721) C:77% T:86%	pCi/L	10/13/21 11:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0780 ± 0.419 (1.12)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-38S Lab ID: 92562947009 Collected: 09/23/21 11:20 Received: 09/23/21 17:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.143 ± 0.190 (0.399) C:98% T:NA	pCi/L	10/27/21 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.26 ± 0.471 (0.701) C:78% T:85%	pCi/L	10/13/21 11:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.661 (1.10)	pCi/L	10/28/21 17:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

Sample: DUP-1 **Lab ID: 92562947010** Collected: 09/23/21 00:00 Received: 09/23/21 17:10 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	0.0943 ± 0.167 (0.378) C:97% T:NA	pCi/L	10/27/21 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.540 ± 0.370 (0.705) C:76% T:82%	pCi/L	10/13/21 11:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.634 ± 0.537 (1.08)	pCi/L	10/28/21 17:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

QC Batch: 466416

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92562947001, 92562947002, 92562947003, 92562947004, 92562947005, 92562947006

METHOD BLANK: 2252287

Matrix: Water

Associated Lab Samples: 92562947001, 92562947002, 92562947003, 92562947004, 92562947005, 92562947006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.393 (0.739) C:68% T:79%	pCi/L	10/13/21 14:18	

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 AP-E RADS

Pace Project No.: 92562947

QC Batch:	466417	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92562947007, 92562947008, 92562947009, 92562947010

METHOD BLANK: 2252288 Matrix: Water

Associated Lab Samples: 92562947007, 92562947008, 92562947009, 92562947010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0448 ± 0.328 (0.776) C:75% T:81%	pCi/L	10/13/21 11:10	

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 - RADIOCHEMISTRY

Project: BRANCH AP-E RADS

Pace Project No.: 92562947

QC Batch:	466466	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92562947001, 92562947002, 92562947003, 92562947004, 92562947005, 92562947006, 92562947007, 92562947008, 92562947009, 92562947010

METHOD BLANK:	2252388	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 92562947001, 92562947002, 92562947003, 92562947004, 92562947005, 92562947006, 92562947007, 92562947008, 92562947009, 92562947010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.396 ± 0.389 (0.814) C:96% T:NA	pCi/L	10/27/21 08:49	

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: BRANCH AP-E RADS

Pace Project No.: 92562947

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-E RADS
 Pace Project No.: 92562947

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92562947001	BRGWC-17S	EPA 9315	466466		
92562947002	BRGWC-33S	EPA 9315	466466		
92562947003	BRGWC-34S	EPA 9315	466466		
92562947004	BRGWC-36S	EPA 9315	466466		
92562947005	EB-1	EPA 9315	466466		
92562947006	FB-1	EPA 9315	466466		
92562947007	BRGWC-35S	EPA 9315	466466		
92562947008	BRGWC-37S	EPA 9315	466466		
92562947009	BRGWC-38S	EPA 9315	466466		
92562947010	DUP-1	EPA 9315	466466		
92562947001	BRGWC-17S	EPA 9320	466416		
92562947002	BRGWC-33S	EPA 9320	466416		
92562947003	BRGWC-34S	EPA 9320	466416		
92562947004	BRGWC-36S	EPA 9320	466416		
92562947005	EB-1	EPA 9320	466416		
92562947006	FB-1	EPA 9320	466416		
92562947007	BRGWC-35S	EPA 9320	466417		
92562947008	BRGWC-37S	EPA 9320	466417		
92562947009	BRGWC-38S	EPA 9320	466417		
92562947010	DUP-1	EPA 9320	466417		
92562947001	BRGWC-17S	Total Radium Calculation	470302		
92562947002	BRGWC-33S	Total Radium Calculation	470302		
92562947003	BRGWC-34S	Total Radium Calculation	470302		
92562947004	BRGWC-36S	Total Radium Calculation	470302		
92562947005	EB-1	Total Radium Calculation	470302		
92562947006	FB-1	Total Radium Calculation	470302		
92562947007	BRGWC-35S	Total Radium Calculation	470302		
92562947008	BRGWC-37S	Total Radium Calculation	470302		
92562947009	BRGWC-38S	Total Radium Calculation	470302		
92562947010	DUP-1	Total Radium Calculation	470302		

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 Powl

Project #: **WO# : 92562947**



Date/Initials Person Examining Contents: 15 9/15/2

Courier: Commercial Fed Ex UPS USPS Other: Client Pace

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological/Plants Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of lot: Test Blue None

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) 2.0

Temp should be above freezing to 5°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check map)? 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input 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-dmm)?	<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 soil container:

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-083-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolina 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, BPO/NO15 (water) DOC, UHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92562947

PH: NHO

Due Date: 10/14/21

CLIENT: GR-GR Power

Item	Material	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic, Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, Plastic, Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-500 ml, Plastic, Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-125 ml, Plastic HDPE (pH < 2) (D-)		/	/	/	/	/	/	/	/	/	/	/	/
BP30-250 ml, plastic HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP42-125 ml, Plastic 2N Acetate & NaOH (V)		/	/	/	/	/	/	/	/	/	/	/	/
BP4C-125 ml, Plastic NaOH (pH > 12) (D-)		/	/	/	/	/	/	/	/	/	/	/	/
W0210-Wide-mouthed Glass jar, Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
A010-1 liter Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/
A010A-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010-125 ml, Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/
A010-1 liter Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010-125 ml, Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
A010A(020M)-250 ml Amber HDPE (N/A)(D-)		/	/	/	/	/	/	/	/	/	/	/	/
D020-40 ml, VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
D030-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V040 (6 vials per kit)-5000 kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V050 (3 vials per kit)-VPH/500 kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-125 ml, Sterile Plastic (N/A - kit)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml, Sterile Plastic (N/A - kit)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic (N/A - kit)		/	/	/	/	/	/	/	/	/	/	/	/
BP10A-125 ml, Plastic (N/A)(D-)		/	/	/	/	/	/	/	/	/	/	/	/
A020-100 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-40 ml, Scintillation vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
D020-40 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

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 DEHHS Certification Office (N.C. 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 required fields must be completed accurately.

Page: 1 of 1

Section 1 Requester Information	Section 2 Requested Project Information	Section 3 Requester Information
Requester Name: [Blank] Requester Title: [Blank] Requester Email: [Blank] Requester Phone: [Blank]	Project Name: [Blank] Project ID: [Blank] Request Date: [Blank]	Requester Name: [Blank] Requester Title: [Blank] Requester Email: [Blank] Requester Phone: [Blank]
Requester Signature: [Blank]	Requester Signature: [Blank]	Requester Signature: [Blank]

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS TEST		ANALYST	LABORATORY
					TEST NAME	TEST CODE		
1	Sample 01	9/21/2011	11:00	...	...	...	...	...
2	Sample 02	9/21/2011	11:30	...	...	...	...	...
3	Sample 03	9/21/2011	12:00	...	...	...	...	...
4	Sample 04	9/21/2011	12:30	...	...	...	...	...
5	Sample 05	9/21/2011	13:00	...	...	...	...	...
6	Sample 06	9/21/2011	13:30	...	...	...	...	...
7								
8								
9								
10								
11								
12								

Site: [Blank] / [Blank] Date: 9-21-11

Signature: [Blank]



Document Name
Sample Container Upon Receipt (SCUR)
 Document No.
14004-03-02-Rev 00

Document Revised October 28, 2010
 Page 2 of 2
 Issued by:
 Paul C. Heston, Director, OPR

Laboratory receiving samples:

Asheville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Knoxville

Sample received by
 (print name)

Client Name
GA POWER
 Project #
 Fire Ex Pops TSPS Other
 Soil Other

Project #

UNIFORM AND PROTECTIVE Yes No Soil shoes? Yes No

Date/Time of Receipt (print name) 9/23/2010

Are there other materials? Blood sample Blood bags None Other
 Other: GA POWER

Biological Source? Yes No Other

UNIFORM (temp) 24 Correction Factor: -1
 Address: AS

Items should be above minimum 10°C
 Transfer out of items into a container or use cooling packs for frozen

UNIFORM (temp) 24
 UNIFORM (temp) 24
 UNIFORM (temp) 24
 UNIFORM (temp) 24

Do not touch or open containers until notified by the laboratory
 Yes No

	Compliance			Compliance
1. Items are uniformly present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
2. Samples received within Hold Time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2
3. Short-Term Time Analysis (1/2 hr)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
4. Made Your Request (Time Requested)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4
5. UNIFORM (temp)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
6. Contact Containers Used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6
7. Free Containers Used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7
8. Contaminated? (Yes/No)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8
9. Uncontaminated? (Yes/No)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9
10. Sample Labels with SCUR?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
11. Lot Labels with Temp (TR) Analysis? Matrix	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11
12. Hold Time (TR) Analysis? (Yes/No)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12
13. Trip Data Prepared?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13
14. Trip Data (Uniformity) Prepared?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14

10 Day TAT

Comments/Issues/Notes: _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ UPR _____

Project Manager SRF Review: _____ Data _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptable range for distribution samples.

Project #

Example: V08 4476 = PUL 01 and Date 08/01/05 in the T.C.M.S.P.

**Bottom half of box is to be number of bottles

Sample	Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Sample Volume	Sample pH	Sample Chlorine	Sample Notes
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH when received	Date preservation adjusted	Time preservation adjusted	Amount of pH Adjustment	Lot #

Note: Whenever there is a circumstance affecting North Carolina compliance samples, a record of pH adjustment must be kept for the duration of the sample's shelf life. This record should be maintained in the sample's preservation log.

Quality Control Sample Performance Assessment

Analysis Method: **Mercury Levels At Each Analytical Station**

Sample Name	Station	Method	Result
Sample 1	Station 1	Method A	0.001
Sample 2	Station 2	Method B	0.002
Sample 3	Station 3	Method C	0.003
Sample 4	Station 4	Method D	0.004
Sample 5	Station 5	Method E	0.005
Sample 6	Station 6	Method F	0.006
Sample 7	Station 7	Method G	0.007
Sample 8	Station 8	Method H	0.008
Sample 9	Station 9	Method I	0.009
Sample 10	Station 10	Method J	0.010
Sample 11	Station 11	Method K	0.011
Sample 12	Station 12	Method L	0.012
Sample 13	Station 13	Method M	0.013
Sample 14	Station 14	Method N	0.014
Sample 15	Station 15	Method O	0.015
Sample 16	Station 16	Method P	0.016
Sample 17	Station 17	Method Q	0.017
Sample 18	Station 18	Method R	0.018
Sample 19	Station 19	Method S	0.019
Sample 20	Station 20	Method T	0.020

Quality Control Sample Performance Assessment



Assessment Method: Error Analysis using Error Grid

Date: 10/15/18
 Analyst: [Redacted]
 Location: [Redacted]
 Method: [Redacted]

Sample	Target	Observed	Error	Error Grid
1. [Redacted]	100	100	0	0.0%
2. [Redacted]	100	100	0	0.0%
3. [Redacted]	100	100	0	0.0%
4. [Redacted]	100	100	0	0.0%
5. [Redacted]	100	100	0	0.0%
6. [Redacted]	100	100	0	0.0%
7. [Redacted]	100	100	0	0.0%
8. [Redacted]	100	100	0	0.0%
9. [Redacted]	100	100	0	0.0%
10. [Redacted]	100	100	0	0.0%
11. [Redacted]	100	100	0	0.0%
12. [Redacted]	100	100	0	0.0%
13. [Redacted]	100	100	0	0.0%
14. [Redacted]	100	100	0	0.0%
15. [Redacted]	100	100	0	0.0%
16. [Redacted]	100	100	0	0.0%
17. [Redacted]	100	100	0	0.0%
18. [Redacted]	100	100	0	0.0%
19. [Redacted]	100	100	0	0.0%
20. [Redacted]	100	100	0	0.0%
21. [Redacted]	100	100	0	0.0%
22. [Redacted]	100	100	0	0.0%
23. [Redacted]	100	100	0	0.0%
24. [Redacted]	100	100	0	0.0%
25. [Redacted]	100	100	0	0.0%
26. [Redacted]	100	100	0	0.0%
27. [Redacted]	100	100	0	0.0%
28. [Redacted]	100	100	0	0.0%
29. [Redacted]	100	100	0	0.0%
30. [Redacted]	100	100	0	0.0%
31. [Redacted]	100	100	0	0.0%
32. [Redacted]	100	100	0	0.0%
33. [Redacted]	100	100	0	0.0%
34. [Redacted]	100	100	0	0.0%
35. [Redacted]	100	100	0	0.0%
36. [Redacted]	100	100	0	0.0%
37. [Redacted]	100	100	0	0.0%
38. [Redacted]	100	100	0	0.0%
39. [Redacted]	100	100	0	0.0%
40. [Redacted]	100	100	0	0.0%
41. [Redacted]	100	100	0	0.0%
42. [Redacted]	100	100	0	0.0%
43. [Redacted]	100	100	0	0.0%
44. [Redacted]	100	100	0	0.0%
45. [Redacted]	100	100	0	0.0%
46. [Redacted]	100	100	0	0.0%
47. [Redacted]	100	100	0	0.0%
48. [Redacted]	100	100	0	0.0%
49. [Redacted]	100	100	0	0.0%
50. [Redacted]	100	100	0	0.0%
51. [Redacted]	100	100	0	0.0%
52. [Redacted]	100	100	0	0.0%
53. [Redacted]	100	100	0	0.0%
54. [Redacted]	100	100	0	0.0%
55. [Redacted]	100	100	0	0.0%
56. [Redacted]	100	100	0	0.0%
57. [Redacted]	100	100	0	0.0%
58. [Redacted]	100	100	0	0.0%
59. [Redacted]	100	100	0	0.0%
60. [Redacted]	100	100	0	0.0%
61. [Redacted]	100	100	0	0.0%
62. [Redacted]	100	100	0	0.0%
63. [Redacted]	100	100	0	0.0%
64. [Redacted]	100	100	0	0.0%
65. [Redacted]	100	100	0	0.0%
66. [Redacted]	100	100	0	0.0%
67. [Redacted]	100	100	0	0.0%
68. [Redacted]	100	100	0	0.0%
69. [Redacted]	100	100	0	0.0%
70. [Redacted]	100	100	0	0.0%
71. [Redacted]	100	100	0	0.0%
72. [Redacted]	100	100	0	0.0%
73. [Redacted]	100	100	0	0.0%
74. [Redacted]	100	100	0	0.0%
75. [Redacted]	100	100	0	0.0%
76. [Redacted]	100	100	0	0.0%
77. [Redacted]	100	100	0	0.0%
78. [Redacted]	100	100	0	0.0%
79. [Redacted]	100	100	0	0.0%
80. [Redacted]	100	100	0	0.0%
81. [Redacted]	100	100	0	0.0%
82. [Redacted]	100	100	0	0.0%
83. [Redacted]	100	100	0	0.0%
84. [Redacted]	100	100	0	0.0%
85. [Redacted]	100	100	0	0.0%
86. [Redacted]	100	100	0	0.0%
87. [Redacted]	100	100	0	0.0%
88. [Redacted]	100	100	0	0.0%
89. [Redacted]	100	100	0	0.0%
90. [Redacted]	100	100	0	0.0%
91. [Redacted]	100	100	0	0.0%
92. [Redacted]	100	100	0	0.0%
93. [Redacted]	100	100	0	0.0%
94. [Redacted]	100	100	0	0.0%
95. [Redacted]	100	100	0	0.0%
96. [Redacted]	100	100	0	0.0%
97. [Redacted]	100	100	0	0.0%
98. [Redacted]	100	100	0	0.0%
99. [Redacted]	100	100	0	0.0%
100. [Redacted]	100	100	0	0.0%

10/15/18

Quality Control Sample Performance Assessment

Approved by: [Signature] Date: 11/11/14

Approved by: [Signature] Date: 11/11/14

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results	Sample Comments
1	Sample 1	Water	Well 1	11/11/14	10:00	Pass	0.05 mg/L	Sample 1: Water from Well 1, 11/11/14, 10:00. Results: 0.05 mg/L. Comments: Sample passed.
2	Sample 2	Water	Well 2	11/11/14	10:15	Pass	0.05 mg/L	Sample 2: Water from Well 2, 11/11/14, 10:15. Results: 0.05 mg/L. Comments: Sample passed.
3	Sample 3	Water	Well 3	11/11/14	10:30	Pass	0.05 mg/L	Sample 3: Water from Well 3, 11/11/14, 10:30. Results: 0.05 mg/L. Comments: Sample passed.
4	Sample 4	Water	Well 4	11/11/14	10:45	Pass	0.05 mg/L	Sample 4: Water from Well 4, 11/11/14, 10:45. Results: 0.05 mg/L. Comments: Sample passed.
5	Sample 5	Water	Well 5	11/11/14	11:00	Pass	0.05 mg/L	Sample 5: Water from Well 5, 11/11/14, 11:00. Results: 0.05 mg/L. Comments: Sample passed.
6	Sample 6	Water	Well 6	11/11/14	11:15	Pass	0.05 mg/L	Sample 6: Water from Well 6, 11/11/14, 11:15. Results: 0.05 mg/L. Comments: Sample passed.
7	Sample 7	Water	Well 7	11/11/14	11:30	Pass	0.05 mg/L	Sample 7: Water from Well 7, 11/11/14, 11:30. Results: 0.05 mg/L. Comments: Sample passed.
8	Sample 8	Water	Well 8	11/11/14	11:45	Pass	0.05 mg/L	Sample 8: Water from Well 8, 11/11/14, 11:45. Results: 0.05 mg/L. Comments: Sample passed.
9	Sample 9	Water	Well 9	11/11/14	12:00	Pass	0.05 mg/L	Sample 9: Water from Well 9, 11/11/14, 12:00. Results: 0.05 mg/L. Comments: Sample passed.
10	Sample 10	Water	Well 10	11/11/14	12:15	Pass	0.05 mg/L	Sample 10: Water from Well 10, 11/11/14, 12:15. Results: 0.05 mg/L. Comments: Sample passed.

Comments:

11/11/14



October 01, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Branch CCR-Ash Pond
Pace Project No.: 92563212

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 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 - Peachtree Corners, GA

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

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

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SAMPLE SUMMARY

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92563212001	LR-1 (Surface)	Water	09/23/21 10:55	09/24/21 08:24
92563212002	LR-1 (Mid)	Water	09/23/21 10:55	09/24/21 08:24
92563212003	LR-1 (Bottom)	Water	09/23/21 10:55	09/24/21 08:24
92563212004	LR+8A (Surface)	Water	09/23/21 10:35	09/24/21 08:24
92563212005	LR+9A (Surface)	Water	09/23/21 10:42	09/24/21 08:24
92563212006	LR+8 (Surface)	Water	09/23/21 10:22	09/24/21 08:24
92563212007	LR+8 (Mid)	Water	09/23/21 10:22	09/24/21 08:24
92563212008	LR+8 (Bottom)	Water	09/23/21 10:22	09/24/21 08:24
92563212009	LR+9 (Surface)	Water	09/23/21 10:10	09/24/21 08:24
92563212010	LR+9 (Mid)	Water	09/23/21 10:10	09/24/21 08:24
92563212011	LR+9 (Bottom)	Water	09/23/21 10:10	09/24/21 08:24
92563212012	LR-10 (Surface)	Water	09/23/21 09:51	09/24/21 08:24
92563212013	LR-10 (Mid)	Water	09/23/21 09:51	09/24/21 08:24
92563212014	LR-10 (Bottom)	Water	09/23/21 09:51	09/24/21 08:24

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SAMPLE ANALYTE COUNT

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92563212001	LR-1 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212002	LR-1 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212003	LR-1 (Bottom)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212004	LR+8A (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212005	LR+9A (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212006	LR+8 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212007	LR+8 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212008	LR+8 (Bottom)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92563212009	LR+9 (Surface)	SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
92563212010	LR+9 (Mid)	SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
92563212011	LR+9 (Bottom)	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92563212012	LR-10 (Surface)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92563212013	LR-10 (Mid)	EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
92563212014	LR-10 (Bottom)	SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA

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

Pace Project No.: 92563212

Sample: LR-1 (Surface)	Lab ID: 92563212001	Collected: 09/23/21 10:55	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 14:56	7440-09-7	
Sodium	4.7	mg/L	1.0	1	09/28/21 10:00	09/28/21 14:56	7440-23-5	M1
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 14:56	7440-70-2	M1
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 14:56	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 18:29	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 18:29	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	62.0	mg/L	10.0	1		09/29/21 19:08		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	34.2	mg/L	5.0	1		09/27/21 18:06		
Alkalinity, Total as CaCO ₃	34.2	mg/L	5.0	1		09/27/21 18:06		
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	1		09/26/21 23:36	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/26/21 23:36	16984-48-8	
Sulfate	1.8	mg/L	1.0	1		09/26/21 23:36	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR-1 (Mid)	Lab ID: 92563212002	Collected: 09/23/21 10:55	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 17:56	7440-09-7	
Sodium	4.7	mg/L	1.0	1	09/28/21 10:00	09/28/21 17:56	7440-23-5	
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 17:56	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 17:56	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 18:35	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 18:35	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	61.0	mg/L	10.0	1		09/29/21 19:08		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.2	mg/L	5.0	1		09/27/21 18:12		
Alkalinity, Total as CaCO ₃	33.2	mg/L	5.0	1		09/27/21 18:12		
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	1		09/27/21 00:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 00:20	16984-48-8	
Sulfate	1.8	mg/L	1.0	1		09/27/21 00:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR-1 (Bottom)	Lab ID: 92563212003	Collected: 09/23/21 10:55	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.4	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:01	7440-09-7	
Sodium	4.5	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:01	7440-23-5	
Calcium	4.7	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:01	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:01	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 18:57	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 18:57	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	63.0	mg/L	10.0	1		09/29/21 19:08		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	32.0	mg/L	5.0	1		09/27/21 18:18		
Alkalinity, Total as CaCO ₃	32.0	mg/L	5.0	1		09/27/21 18:18		
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	1		09/27/21 00:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 00:35	16984-48-8	
Sulfate	1.8	mg/L	1.0	1		09/27/21 00:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR+8A (Surface)		Lab ID: 92563212004	Collected: 09/23/21 10:35	Received: 09/24/21 08:24	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.6	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:06	7440-09-7	
Sodium	4.9	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:06	7440-23-5	
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:06	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:06	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:03	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:03	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	61.0	mg/L	10.0	1		09/29/21 19:08		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	31.9	mg/L	5.0	1		09/27/21 18:32		
Alkalinity, Total as CaCO ₃	31.9	mg/L	5.0	1		09/27/21 18:32		
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	1		09/27/21 00:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 00:50	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		09/27/21 00:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR+9A (Surface)	Lab ID: 92563212005	Collected: 09/23/21 10:42	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:11	7440-09-7	
Sodium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:11	7440-23-5	
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:11	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:11	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:09	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:09	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	56.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	31.8	mg/L	5.0	1		09/27/21 18:38		
Alkalinity, Total as CaCO ₃	31.8	mg/L	5.0	1		09/27/21 18:38		
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	1		09/27/21 01:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 01:05	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		09/27/21 01:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR+8 (Surface)	Lab ID: 92563212006	Collected: 09/23/21 10:22	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:15	7440-09-7	
Sodium	5.2	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:15	7440-23-5	
Calcium	5.3	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:15	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:15	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:26	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:26	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	56.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	31.5	mg/L	5.0	1		09/27/21 18:44		
Alkalinity, Total as CaCO ₃	31.5	mg/L	5.0	1		09/27/21 18:44		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	3.3	mg/L	1.0	1		09/27/21 01:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 01:20	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		09/27/21 01:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR+8 (Mid)	Lab ID: 92563212007	Collected: 09/23/21 10:22	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:20	7440-09-7	
Sodium	5.1	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:20	7440-23-5	
Calcium	5.2	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:20	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:20	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:32	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:32	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	31.9	mg/L	5.0	1		09/27/21 18:50		
Alkalinity, Total as CaCO ₃	31.9	mg/L	5.0	1		09/27/21 18:50		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	3.3	mg/L	1.0	1		09/27/21 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 02:05	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		09/27/21 02:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR+8 (Bottom)	Lab ID: 92563212008	Collected: 09/23/21 10:22	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:25	7440-09-7	
Sodium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:25	7440-23-5	
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:25	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:25	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:37	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:37	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	54.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	32.7	mg/L	5.0	1		09/27/21 18:55		
Alkalinity, Total as CaCO ₃	32.7	mg/L	5.0	1		09/27/21 18:55		
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	1		09/27/21 02:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 02:20	16984-48-8	
Sulfate	2.2	mg/L	1.0	1		09/27/21 02:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR+9 (Surface)	Lab ID: 92563212009	Collected: 09/23/21 10:10	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:42	7440-09-7	
Sodium	5.1	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:42	7440-23-5	
Calcium	5.2	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:42	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:42	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:43	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:43	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	50.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	32.8	mg/L	5.0	1		09/27/21 19:01		
Alkalinity, Total as CaCO ₃	32.8	mg/L	5.0	1		09/27/21 19:01		
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	1		09/27/21 02:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 02:35	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		09/27/21 02:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR+9 (Mid)	Lab ID: 92563212010	Collected: 09/23/21 10:10	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:47	7440-09-7	
Sodium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:47	7440-23-5	
Calcium	5.0	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:47	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:47	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:49	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:49	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	58.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.0	mg/L	5.0	1		09/27/21 19:19		
Alkalinity, Total as CaCO ₃	33.0	mg/L	5.0	1		09/27/21 19:19		
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	1		09/27/21 02:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 02:50	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		09/27/21 02:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR+9 (Bottom)	Lab ID: 92563212011	Collected: 09/23/21 10:10	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:52	7440-09-7	
Sodium	4.9	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:52	7440-23-5	
Calcium	4.9	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:52	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:52	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 19:55	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 19:55	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.5	mg/L	5.0	1		09/27/21 19:24		
Alkalinity, Total as CaCO ₃	33.5	mg/L	5.0	1		09/27/21 19:24		
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	1		09/27/21 03:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 03:05	16984-48-8	
Sulfate	2.3	mg/L	1.0	1		09/27/21 03:05	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR-10 (Surface)		Lab ID: 92563212012	Collected: 09/23/21 09:51	Received: 09/24/21 08:24	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.5	mg/L	0.20	1	09/28/21 10:00	09/28/21 18:56	7440-09-7	
Sodium	4.8	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:56	7440-23-5	
Calcium	4.8	mg/L	1.0	1	09/28/21 10:00	09/28/21 18:56	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 18:56	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 20:00	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 20:00	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	60.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	32.9	mg/L	5.0	1		09/27/21 19:39		
Alkalinity, Total as CaCO ₃	32.9	mg/L	5.0	1		09/27/21 19:39		
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	1		09/27/21 03:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 03:50	16984-48-8	
Sulfate	2.4	mg/L	1.0	1		09/27/21 03:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond
 Pace Project No.: 92563212

Sample: LR-10 (Mid)	Lab ID: 92563212013	Collected: 09/23/21 09:51	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.4	mg/L	0.20	1	09/28/21 10:00	09/28/21 19:01	7440-09-7	
Sodium	4.8	mg/L	1.0	1	09/28/21 10:00	09/28/21 19:01	7440-23-5	
Calcium	4.8	mg/L	1.0	1	09/28/21 10:00	09/28/21 19:01	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 19:01	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 20:06	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 20:06	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	53.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.0	mg/L	5.0	1		09/27/21 19:44		
Alkalinity, Total as CaCO ₃	33.0	mg/L	5.0	1		09/27/21 19:44		
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	1		09/27/21 04:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 04:05	16984-48-8	
Sulfate	2.4	mg/L	1.0	1		09/27/21 04:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Sample: LR-10 (Bottom)	Lab ID: 92563212014	Collected: 09/23/21 09:51	Received: 09/24/21 08:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	09/28/21 10:00	09/28/21 19:06	7440-09-7	
Sodium	4.8	mg/L	1.0	1	09/28/21 10:00	09/28/21 19:06	7440-23-5	
Calcium	4.9	mg/L	1.0	1	09/28/21 10:00	09/28/21 19:06	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	09/28/21 10:00	09/28/21 19:06	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/28/21 09:20	09/28/21 20:12	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/28/21 09:20	09/28/21 20:12	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	53.0	mg/L	10.0	1		09/29/21 19:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	32.6	mg/L	5.0	1		09/27/21 19:50		
Alkalinity, Total as CaCO ₃	32.6	mg/L	5.0	1		09/27/21 19:50		
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	1		09/27/21 04:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/27/21 04:20	16984-48-8	
Sulfate	2.4	mg/L	1.0	1		09/27/21 04:20	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

QC Batch:	649634	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

METHOD BLANK:	3406953	Matrix:	Water
Associated Lab Samples:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	09/28/21 14:47	
Magnesium	mg/L	ND	0.050	09/28/21 14:47	
Potassium	mg/L	ND	0.20	09/28/21 14:47	
Sodium	mg/L	ND	1.0	09/28/21 14:47	

LABORATORY CONTROL SAMPLE: 3406954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	113	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406955 3406956

Parameter	Units	92563212001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	5.0	1	1	6.0	6.3	95	126	75-125	5	20	M1
Magnesium	mg/L	2.5	1	1	3.6	3.7	109	113	75-125	1	20	
Potassium	mg/L	2.5	1	1	3.5	3.6	99	116	75-125	5	20	
Sodium	mg/L	4.7	1	1	5.7	6.0	107	134	75-125	5	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

QC Batch: 649637

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014

METHOD BLANK: 3406966

Matrix: Water

Associated Lab Samples: 92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	09/28/21 18:17	
Cobalt	mg/L	ND	0.0050	09/28/21 18:17	

LABORATORY CONTROL SAMPLE: 3406967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406968 3406969

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result								
Boron	mg/L	ND	1	1	1.0	0.99	101	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

QC Batch: 649984 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: 92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014

METHOD BLANK: 3409087 Matrix: Water
 Associated Lab Samples: 92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/29/21 19:07	

LABORATORY CONTROL SAMPLE: 3409088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	90-111	

SAMPLE DUPLICATE: 3409089

Parameter	Units	92563085003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	88.0	30	10	D6

SAMPLE DUPLICATE: 3409090

Parameter	Units	92563212005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	53.0	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

QC Batch:	649465	Analysis Method:	SM 2320B-2011
QC Batch Method:	SM 2320B-2011	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

METHOD BLANK:	3406338	Matrix:	Water
Associated Lab Samples:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/27/21 17:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/27/21 17:30	

LABORATORY CONTROL SAMPLE: 3406339						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 3406340						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406341												3406342	
Parameter	Units	92562667004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Alkalinity, Total as CaCO3	mg/L	ND	50	50	21.9	20.8	44	42	80-120	5	25	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406343												3406344	
Parameter	Units	92563212009 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	32.8	50	50	83.8	83.8	102	102	80-120	0	25		

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QUALITY CONTROL DATA

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

QC Batch:	649414	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:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

METHOD BLANK:	3406122	Matrix:	Water
Associated Lab Samples:	92563212001, 92563212002, 92563212003, 92563212004, 92563212005, 92563212006, 92563212007, 92563212008, 92563212009, 92563212010, 92563212011, 92563212012, 92563212013, 92563212014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/26/21 23:06	
Fluoride	mg/L	ND	0.10	09/26/21 23:06	
Sulfate	mg/L	ND	1.0	09/26/21 23:06	

LABORATORY CONTROL SAMPLE: 3406123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406124 3406125

Parameter	Units	92563212001		3406125		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	3.1	50	56.2	57.0	106	108	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.7	2.7	104	105	90-110	1	10	
Sulfate	mg/L	1.8	50	56.4	57.2	109	111	90-110	1	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406126 3406127

Parameter	Units	92563212011		3406127		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	3.4	50	56.8	57.8	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.7	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.3	50	57.2	58.2	110	112	90-110	2	10 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch CCR-Ash Pond
Pace Project No.: 92563212

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
 Pace Project No.: 92563212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563212001	LR-1 (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212002	LR-1 (Mid)	EPA 3010A	649634	EPA 6010D	649673
92563212003	LR-1 (Bottom)	EPA 3010A	649634	EPA 6010D	649673
92563212004	LR+8A (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212005	LR+9A (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212006	LR+8 (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212007	LR+8 (Mid)	EPA 3010A	649634	EPA 6010D	649673
92563212008	LR+8 (Bottom)	EPA 3010A	649634	EPA 6010D	649673
92563212009	LR+9 (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212010	LR+9 (Mid)	EPA 3010A	649634	EPA 6010D	649673
92563212011	LR+9 (Bottom)	EPA 3010A	649634	EPA 6010D	649673
92563212012	LR-10 (Surface)	EPA 3010A	649634	EPA 6010D	649673
92563212013	LR-10 (Mid)	EPA 3010A	649634	EPA 6010D	649673
92563212014	LR-10 (Bottom)	EPA 3010A	649634	EPA 6010D	649673
92563212001	LR-1 (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212002	LR-1 (Mid)	EPA 3005A	649637	EPA 6020B	649678
92563212003	LR-1 (Bottom)	EPA 3005A	649637	EPA 6020B	649678
92563212004	LR+8A (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212005	LR+9A (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212006	LR+8 (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212007	LR+8 (Mid)	EPA 3005A	649637	EPA 6020B	649678
92563212008	LR+8 (Bottom)	EPA 3005A	649637	EPA 6020B	649678
92563212009	LR+9 (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212010	LR+9 (Mid)	EPA 3005A	649637	EPA 6020B	649678
92563212011	LR+9 (Bottom)	EPA 3005A	649637	EPA 6020B	649678
92563212012	LR-10 (Surface)	EPA 3005A	649637	EPA 6020B	649678
92563212013	LR-10 (Mid)	EPA 3005A	649637	EPA 6020B	649678
92563212014	LR-10 (Bottom)	EPA 3005A	649637	EPA 6020B	649678
92563212001	LR-1 (Surface)	SM 2540C-2011	649984		
92563212002	LR-1 (Mid)	SM 2540C-2011	649984		
92563212003	LR-1 (Bottom)	SM 2540C-2011	649984		
92563212004	LR+8A (Surface)	SM 2540C-2011	649984		
92563212005	LR+9A (Surface)	SM 2540C-2011	649984		
92563212006	LR+8 (Surface)	SM 2540C-2011	649984		
92563212007	LR+8 (Mid)	SM 2540C-2011	649984		
92563212008	LR+8 (Bottom)	SM 2540C-2011	649984		
92563212009	LR+9 (Surface)	SM 2540C-2011	649984		
92563212010	LR+9 (Mid)	SM 2540C-2011	649984		
92563212011	LR+9 (Bottom)	SM 2540C-2011	649984		
92563212012	LR-10 (Surface)	SM 2540C-2011	649984		
92563212013	LR-10 (Mid)	SM 2540C-2011	649984		
92563212014	LR-10 (Bottom)	SM 2540C-2011	649984		
92563212001	LR-1 (Surface)	SM 2320B-2011	649465		
92563212002	LR-1 (Mid)	SM 2320B-2011	649465		
92563212003	LR-1 (Bottom)	SM 2320B-2011	649465		
92563212004	LR+8A (Surface)	SM 2320B-2011	649465		
92563212005	LR+9A (Surface)	SM 2320B-2011	649465		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch CCR-Ash Pond

Pace Project No.: 92563212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563212006	LR+8 (Surface)	SM 2320B-2011	649465		
92563212007	LR+8 (Mid)	SM 2320B-2011	649465		
92563212008	LR+8 (Bottom)	SM 2320B-2011	649465		
92563212009	LR+9 (Surface)	SM 2320B-2011	649465		
92563212010	LR+9 (Mid)	SM 2320B-2011	649465		
92563212011	LR+9 (Bottom)	SM 2320B-2011	649465		
92563212012	LR-10 (Surface)	SM 2320B-2011	649465		
92563212013	LR-10 (Mid)	SM 2320B-2011	649465		
92563212014	LR-10 (Bottom)	SM 2320B-2011	649465		
92563212001	LR-1 (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212002	LR-1 (Mid)	EPA 300.0 Rev 2.1 1993	649414		
92563212003	LR-1 (Bottom)	EPA 300.0 Rev 2.1 1993	649414		
92563212004	LR+8A (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212005	LR+9A (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212006	LR+8 (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212007	LR+8 (Mid)	EPA 300.0 Rev 2.1 1993	649414		
92563212008	LR+8 (Bottom)	EPA 300.0 Rev 2.1 1993	649414		
92563212009	LR+9 (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212010	LR+9 (Mid)	EPA 300.0 Rev 2.1 1993	649414		
92563212011	LR+9 (Bottom)	EPA 300.0 Rev 2.1 1993	649414		
92563212012	LR-10 (Surface)	EPA 300.0 Rev 2.1 1993	649414		
92563212013	LR-10 (Mid)	EPA 300.0 Rev 2.1 1993	649414		
92563212014	LR-10 (Bottom)	EPA 300.0 Rev 2.1 1993	649414		

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CHAIN OF CUSTODY / Analytical Request Document

The Chain of Custody is a legal document. All entries must be completed accurately.

Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____

Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____

Item #	Description	Quantity	Unit	Date	Time	Signature	Title	Agency	Analysis Test	Retention		
										Start	End	By
1	1000 mg	1	g						GC/MS			
2	1000 mg	1	g						GC/MS			
3	1000 mg	1	g						GC/MS			
4	1000 mg	1	g						GC/MS			
5	1000 mg	1	g						GC/MS			
6	1000 mg	1	g						GC/MS			
7	1000 mg	1	g						GC/MS			
8	1000 mg	1	g						GC/MS			
9	1000 mg	1	g						GC/MS			
10	1000 mg	1	g						GC/MS			
11	1000 mg	1	g						GC/MS			
12	1000 mg	1	g						GC/MS			

MO# : 92563212
LABORATORY # 1114
RECEIVED 12

Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____
 Analytical Request Information: **Project #** _____ **Sample ID** _____



CHAIN-OF-CUSTODY / Analytical Results Report
 The Chain-of-Custody is a legal document that must be completed accurately.

Page: **2** of **3**

Project Name	Project #	Location	City
Client Name	Client #	Address	State
Project Start	Project End	Project Manager	Project Engineer
Project Status	Project Type	Project Description	Project Notes

WORK : 92563212
 DATE: 10/21/21
 CLIENT: (604-608-0811)

ITEM	SAMPLE ID	Description	COLLECTED		ANALYZED	PRESERVED														
			DATE	TIME		BY	HOW	1	2	3	4	5	6	7	8	9	10			
1	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021	10-10-2021

Client Name	Project Name	Project #	Location	City	State	Project Manager	Project Engineer
Client Address	Client Phone	Client Email	Client Website	Client Fax	Client F1	Client F2	Client F3
Project Start	Project End	Project Status	Project Type	Project Description	Project Notes	Project Manager	Project Engineer

Laboratory receiving samples:

Asheville Eden Greenwood Murfreesville Raleigh Mechanicsville Atlanta Kennesaw

Vendor/Client
Client Name:

Client Name: Accadia Atlanta
 Food Cos Other Gen
 Commercial Misc Other _____

Project #

WO#: 92563212

PM: JP Due Date: 10/01/21
 CLIENT: (2019) - Atlanta

Quasi Seal Present? No Yes Seal intact Yes No

Date/Time from Sealing Control 7/24/21

Sealing Material Elastic strap Rubber band Plastic Other _____

Biological Tapal System? Yes No N/A

Thermometer: Yes 0.83 No
 Type of Ice Dry Wet None

Cooler Temp: 5.2 Connection Factor: 0.0
 Acid/Potency: 0.0

Temp should be above freezing to 4°C
 Samples not at temp unless samples are cooling process
 resulting in _____

Cooler Temp Corrected Yes 5.2 No
 USDA Regulated Soil? Yes No Water sample
 (a) Sample original in a quarantine container with the label (M, S, V, or SC) (check magn)?
 Yes No

Did samples originate from a single source (institutional, including houses and farms) (Yes/No)? Yes No

		Compliance/Conformance		
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1		
Sampled in bag within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2		
Proof Hold Time analysis (RTI for)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3		
Block from demand time requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4		
Sample not analyzed?	<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		
Per Container's Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6		
Container Sealed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7		
Quarantined analysis (sample held 1-3 days)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8		
Sample Label MATCH SCUR?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9		
Included (Date/Time/ID)/Analysis Matrix	<u>W</u>			
Handwritten or PDA Vials (if Submittal)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10		
High Blank Prepared?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11		
*No. Blanks (Quasi Seal Present)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			

Overall satisfactory SCUR/PCR

Hold Date Required? Yes No

Lot ID of your SCUR sample

Client signature/initials/office

Person contacted: _____ Date/Time: _____

Project Manager SCUR Reviewer _____ Date: _____

Project Manager SRR Reviewer _____ Date: _____



Occurrence Name:
Example: Carolina Ligan Bridge (CLIB)
 Document No:
1-CAL-CA-03-Aver-07

Document Number: October 28, 2010
 Page 2 of 3
 Issuing Authority:
Pass Carolina Quality Office

*Check mark top half of box if pH and/or depth/location is verified and within the acceptance range for preservation samples.

Project #

WO#: 92563212

PH: 28 Due Date: 10/01/23

CLIENT: CA-03-0301

Respective: VOA, Coliform, TDC, EA and Gross, OND (0015, 0016, 0017, 0018, 0019, 0020, 0021)

**Bottom half of box is to list number of bottles

Sample	171-172 ml, Purley Unpreserved (P) (1)	171-173 ml, Purley Unpreserved (P) (2)	171-174 ml, Purley Unpreserved (P) (3)	171-175 ml, Purley Unpreserved (P) (4)	171-176 ml, Purley Unpreserved (P) (5)	171-177 ml, Purley Unpreserved (P) (6)	171-178 ml, Purley Unpreserved (P) (7)	171-179 ml, Purley Unpreserved (P) (8)	171-180 ml, Purley Unpreserved (P) (9)	171-181 ml, Purley Unpreserved (P) (10)	171-182 ml, Purley Unpreserved (P) (11)	171-183 ml, Purley Unpreserved (P) (12)	171-184 ml, Purley Unpreserved (P) (13)	171-185 ml, Purley Unpreserved (P) (14)	171-186 ml, Purley Unpreserved (P) (15)	171-187 ml, Purley Unpreserved (P) (16)	171-188 ml, Purley Unpreserved (P) (17)	171-189 ml, Purley Unpreserved (P) (18)	171-190 ml, Purley Unpreserved (P) (19)	171-191 ml, Purley Unpreserved (P) (20)	171-192 ml, Purley Unpreserved (P) (21)	171-193 ml, Purley Unpreserved (P) (22)	171-194 ml, Purley Unpreserved (P) (23)	171-195 ml, Purley Unpreserved (P) (24)	171-196 ml, Purley Unpreserved (P) (25)	171-197 ml, Purley Unpreserved (P) (26)	171-198 ml, Purley Unpreserved (P) (27)	171-199 ml, Purley Unpreserved (P) (28)	171-200 ml, Purley Unpreserved (P) (29)	171-201 ml, Purley Unpreserved (P) (30)						
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH before receipt	Date preservation adjusted	Type of preservation adjusted	Amount of preservative added	Lot #

Note: whenever there is a loss of quality affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina Office of Environmental and Natural Resources, Out of State, in addition to the container.



July 22, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD RAD-Revised Report
Pace Project No.: 92585970

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 - Greensburg

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.
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Brian Steele, Golder Associates Inc_Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

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 #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585970001	BRGWC-25I	Water	02/02/22 14:44	02/03/22 10:35
92585970002	BRGWC-30I	Water	02/02/22 12:30	02/03/22 10:35
92585970003	BRGWC-32S	Water	02/02/22 14:55	02/03/22 10:35
92585970004	BRGWC-45	Water	02/02/22 10:42	02/03/22 10:35
92585970005	BRGWC-47	Water	02/02/22 09:40	02/03/22 10:35
92585970006	BRGWC-52I	Water	02/02/22 13:34	02/03/22 10:35
92585970007	DUP-2	Water	02/02/22 00:00	02/03/22 10:35
92585970008	BRGWC-50	Water	02/03/22 11:48	02/04/22 16:06
92585970009	BRGWC-27I	Water	02/04/22 08:50	02/04/22 16:06
92585970010	BRGWC-29I	Water	02/03/22 17:00	02/04/22 16:06
92585970011	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 RAD-Revised Report
 Pace Project No.: 92585970

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585970001	BRGWC-25I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970002	BRGWC-30I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970003	BRGWC-32S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970004	BRGWC-45	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970005	BRGWC-47	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970006	BRGWC-52I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970007	DUP-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970008	BRGWC-50	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970009	BRGWC-27I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970010	BRGWC-29I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92585970011	DUP-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970001	BRGWC-25I					
EPA 9315	Radium-226	0.213 ± 0.163 (0.284) C:87% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.427 ± 0.394 (0.804) C:75% T:83%	pCi/L		02/21/22 12:17	
Total Radium Calculation	Total Radium	0.640 ± 0.557 (1.09)	pCi/L		07/21/22 09:22	
92585970002	BRGWC-30I					
EPA 9315	Radium-226	0.237 ± 0.156 (0.238) C:95% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.974 ± 0.564 (1.05) C:77% T:95%	pCi/L		02/21/22 15:39	
Total Radium Calculation	Total Radium	1.21 ± 0.720 (1.29)	pCi/L		07/21/22 09:22	
92585970003	BRGWC-32S					
EPA 9315	Radium-226	0.0831 ± 0.107 (0.220) C:95% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	-0.0566 ± 0.633 (1.49) C:53% T:89%	pCi/L		02/21/22 15:39	
Total Radium Calculation	Total Radium	0.0265 ± 0.740 (1.71)	pCi/L		07/21/22 09:22	
92585970004	BRGWC-45					
EPA 9315	Radium-226	0.0922 ± 0.115 (0.231) C:85% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.127 ± 0.474 (1.07) C:76% T:87%	pCi/L		02/21/22 15:39	
Total Radium Calculation	Total Radium	0.219 ± 0.589 (1.30)	pCi/L		07/21/22 09:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970005	BRGWC-47					
EPA 9315	Radium-226	0.227 ± 0.165 (0.264) C:77% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	-0.0821 ± 0.506 (1.19) C:76% T:81%	pCi/L		02/21/22 15:39	
Total Radium Calculation	Total Radium	0.145 ± 0.671 (1.45)	pCi/L		07/21/22 09:22	
92585970006	BRGWC-52I					
EPA 9315	Radium-226	0.440 ± 0.223 (0.318) C:85% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	1.89 ± 0.793 (1.29) C:77% T:75%	pCi/L		02/21/22 15:40	
Total Radium Calculation	Total Radium	2.33 ± 1.02 (1.61)	pCi/L		07/21/22 09:22	
92585970007	DUP-2					
EPA 9315	Radium-226	0.252 ± 0.164 (0.252) C:94% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	-0.118 ± 0.474 (1.12) C:76% T:91%	pCi/L		02/21/22 15:40	
Total Radium Calculation	Total Radium	0.134 ± 0.638 (1.37)	pCi/L		07/21/22 09:22	
92585970008	BRGWC-50					
EPA 9315	Radium-226	0.262 ± 0.161 (0.243) C:92% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.883 ± 0.422 (0.722) C:76% T:90%	pCi/L		02/21/22 15:40	
Total Radium Calculation	Total Radium	1.15 ± 0.583 (0.965)	pCi/L		07/21/22 09:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585970009	BRGWC-271					
EPA 9315	Radium-226	0.209 ± 0.164 (0.282) C:79% T:NA	pCi/L		02/23/22 09:00	
EPA 9320	Radium-228	0.126 ± 0.377 (0.845) C:79% T:83%	pCi/L		02/21/22 15:40	
Total Radium Calculation	Total Radium	0.335 ± 0.541 (1.13)	pCi/L		07/21/22 09:22	
92585970010	BRGWC-291					
EPA 9315	Radium-226	0.244 ± 0.144 (0.202) C:94% T:NA	pCi/L		02/23/22 11:02	
EPA 9320	Radium-228	0.554 ± 0.398 (0.776) C:78% T:88%	pCi/L		02/21/22 15:42	
Total Radium Calculation	Total Radium	0.798 ± 0.533 (0.978)	pCi/L		07/21/22 09:22	
92585970011	DUP-3					
EPA 9315	Radium-226	0.204 ± 0.155 (0.275) C:88% T:NA	pCi/L		02/23/22 11:02	
EPA 9320	Radium-228	0.661 ± 0.401 (0.747) C:75% T:90%	pCi/L		02/21/22 15:42	
Total Radium Calculation	Total Radium	0.865 ± 0.556 (1.02)	pCi/L		07/21/22 09:22	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-25I Lab ID: 92585970001 Collected: 02/02/22 14:44 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.213 ± 0.163 (0.284) C:87% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.427 ± 0.394 (0.804) C:75% T:83%	pCi/L	02/21/22 12:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.640 ± 0.557 (1.09)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: BRGWC-301 **Lab ID: 92585970002** Collected: 02/02/22 12:30 Received: 02/03/22 10:35 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	0.237 ± 0.156 (0.238) C:95% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.974 ± 0.564 (1.05) C:77% T:95%	pCi/L	02/21/22 15:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.21 ± 0.720 (1.29)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: BRGWC-32S **Lab ID: 92585970003** Collected: 02/02/22 14:55 Received: 02/03/22 10:35 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	0.0831 ± 0.107 (0.220) C:95% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0566 ± 0.633 (1.49) C:53% T:89%	pCi/L	02/21/22 15:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0265 ± 0.740 (1.71)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: BRGWC-45 **Lab ID: 92585970004** Collected: 02/02/22 10:42 Received: 02/03/22 10:35 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	0.0922 ± 0.115 (0.231) C:85% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.127 ± 0.474 (1.07) C:76% T:87%	pCi/L	02/21/22 15:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.219 ± 0.589 (1.30)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-47 Lab ID: 92585970005 Collected: 02/02/22 09:40 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.227 ± 0.165 (0.264) C:77% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0821 ± 0.506 (1.19) C:76% T:81%	pCi/L	02/21/22 15:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.145 ± 0.671 (1.45)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-521 Lab ID: 92585970006 Collected: 02/02/22 13:34 Received: 02/03/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.440 ± 0.223 (0.318) C:85% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.89 ± 0.793 (1.29) C:77% T:75%	pCi/L	02/21/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.33 ± 1.02 (1.61)	pCi/L	07/21/22 09:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: DUP-2 **Lab ID: 92585970007** Collected: 02/02/22 00:00 Received: 02/03/22 10:35 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	0.252 ± 0.164 (0.252) C:94% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.118 ± 0.474 (1.12) C:76% T:91%	pCi/L	02/21/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.134 ± 0.638 (1.37)	pCi/L	07/21/22 09:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: BRGWC-50 **Lab ID: 92585970008** Collected: 02/03/22 11:48 Received: 02/04/22 16:06 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	0.262 ± 0.161 (0.243) C:92% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.883 ± 0.422 (0.722) C:76% T:90%	pCi/L	02/21/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.583 (0.965)	pCi/L	07/21/22 09:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-271 Lab ID: 92585970009 Collected: 02/04/22 08:50 Received: 02/04/22 16:06 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.209 ± 0.164 (0.282) C:79% T:NA	pCi/L	02/23/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.126 ± 0.377 (0.845) C:79% T:83%	pCi/L	02/21/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.335 ± 0.541 (1.13)	pCi/L	07/21/22 09:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BRGWC-29I Lab ID: 92585970010 Collected: 02/03/22 17:00 Received: 02/04/22 16:06 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.244 ± 0.144 (0.202) C:94% T:NA	pCi/L	02/23/22 11:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.554 ± 0.398 (0.776) C:78% T:88%	pCi/L	02/21/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.798 ± 0.533 (0.978)	pCi/L	07/21/22 09:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

Sample: DUP-3 **Lab ID: 92585970011** Collected: 02/03/22 00:00 Received: 02/04/22 16:06 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	0.204 ± 0.155 (0.275) C:88% T:NA	pCi/L	02/23/22 11:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.661 ± 0.401 (0.747) C:75% T:90%	pCi/L	02/21/22 15:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.865 ± 0.556 (1.02)	pCi/L	07/21/22 09:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report
 Pace Project No.: 92585970

QC Batch:	484157	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

METHOD BLANK: 2341231 Matrix: Water

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.145 ± 0.280 (0.615) C:77% T:93%	pCi/L	02/21/22 12:17	

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 AP-BCD RAD-Revised Report

Pace Project No.: 92585970

QC Batch: 484277	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970010, 92585970011

METHOD BLANK: 2341866 Matrix: Water

Associated Lab Samples: 92585970010, 92585970011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.156 ± 0.117 (0.185) C:98% T:NA	pCi/L	02/23/22 11:02	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

QC Batch: 484158

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970010, 92585970011

METHOD BLANK: 2341232

Matrix: Water

Associated Lab Samples: 92585970010, 92585970011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.144 ± 0.303 (0.671) C:74% T:90%	pCi/L	02/21/22 15:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH AP-BCD RAD-Revised Report
 Pace Project No.: 92585970

QC Batch:	484274	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

METHOD BLANK: 2341862 Matrix: Water

Associated Lab Samples: 92585970001, 92585970002, 92585970003, 92585970004, 92585970005, 92585970006, 92585970007, 92585970008, 92585970009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00607 ± 0.0684 (0.194) C:102% T:NA	pCi/L	02/23/22 09:00	

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QUALIFIERS

Project: BRANCH AP-BCD RAD-Revised Report

Pace Project No.: 92585970

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD RAD-Revised Report
 Pace Project No.: 92585970

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585970001	BRGWC-25I	EPA 9315	484274		
92585970002	BRGWC-30I	EPA 9315	484274		
92585970003	BRGWC-32S	EPA 9315	484274		
92585970004	BRGWC-45	EPA 9315	484274		
92585970005	BRGWC-47	EPA 9315	484274		
92585970006	BRGWC-52I	EPA 9315	484274		
92585970007	DUP-2	EPA 9315	484274		
92585970008	BRGWC-50	EPA 9315	484274		
92585970009	BRGWC-27I	EPA 9315	484274		
92585970010	BRGWC-29I	EPA 9315	484277		
92585970011	DUP-3	EPA 9315	484277		
92585970001	BRGWC-25I	EPA 9320	484157		
92585970002	BRGWC-30I	EPA 9320	484157		
92585970003	BRGWC-32S	EPA 9320	484157		
92585970004	BRGWC-45	EPA 9320	484157		
92585970005	BRGWC-47	EPA 9320	484157		
92585970006	BRGWC-52I	EPA 9320	484157		
92585970007	DUP-2	EPA 9320	484157		
92585970008	BRGWC-50	EPA 9320	484157		
92585970009	BRGWC-27I	EPA 9320	484157		
92585970010	BRGWC-29I	EPA 9320	484158		
92585970011	DUP-3	EPA 9320	484158		
92585970001	BRGWC-25I	Total Radium Calculation	520289		
92585970002	BRGWC-30I	Total Radium Calculation	520289		
92585970003	BRGWC-32S	Total Radium Calculation	520289		
92585970004	BRGWC-45	Total Radium Calculation	520289		
92585970005	BRGWC-47	Total Radium Calculation	520289		
92585970006	BRGWC-52I	Total Radium Calculation	520289		
92585970007	DUP-2	Total Radium Calculation	520289		
92585970008	BRGWC-50	Total Radium Calculation	520289		
92585970009	BRGWC-27I	Total Radium Calculation	520289		
92585970010	BRGWC-29I	Total Radium Calculation	520289		
92585970011	DUP-3	Total Radium Calculation	520289		

REPORT OF LABORATORY ANALYSIS

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Document Name
 Sample Condition Upon Receipt (SCUR)
 Document No
 RCM-03-033-Rev 04

Document Revised November 13, 2020
 Page 1 of 2
 Issuing Authority
 Rock Analysis Quality Office

Laboratory receiving samples

Ashville Edin Greerwood Huntsville Raleigh Mechanicsville Atlanta Kernersville



Client Name:

Georgia Power

Project #:

WO#: 92585977

County Commercial

Yard # *100*

Lot # *100*

Site *100*



92585977

Customer Agreement Yes No Not Applicable No Yes

Customer Personnel Handling Samples *012/019*

Packing Material Bubble wrap Bubble bag None Other

Biological Tissue Project

Refrigeration Ice Dry Ice Other Other

No Yes

Cooler Type Dry Ice Other Other

Temp. should be above freezing to 5°C
 Samples not at temperature. Samples on ice cooling process
 Not Applicable

Cooler Temp. Corrected (°C)
 ASTM Registered Soil No, water sample

Get sample in container & submit label address for the correct place (A, B, or C) check No Yes

Do samples originate from a foreign source? No Yes
 Handling Source and Country No Yes
 Country *USA*

Chain of Custody Program?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Samples Arrived within 1 Hour?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Threshold Time Analysis (30 min)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Blank Tests Arrived from Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other
Sample Volume?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other
Correct Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Four Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Container Labeled?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Container analyzed for Volatile Level Request?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other

Includes Chain of Custody Signatures	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Minimum of 2 Chain of Custody Signatures	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other
Top Blank Request?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other
Top Blank Coolery Seal Request?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other

Comments, Issues, Concerns All Data Reported No Yes

Lot ID of each container

CURRENT NOTIFICATION Instructions

Phone contacted Yes No Other

Project Manager SQA/RP Review Yes No Other

Project Manager SBT Review Yes No Other

2

CHAIN OF CUSTODY: Analytical Request Documents
 (To be completed by the user when submitting samples for analysis)

Requester Name: _____
 Requester Title: _____
 Requester Department: _____
 Requester Phone: _____
 Requester Email: _____
 Requester Address: _____
 Requester City: _____
 Requester State: _____
 Requester Zip: _____
 Requester Date: _____

Sample ID	Sample Description	Quantity	Container	Preservation	Analysis Requested	Analysis Method		Analysis Date	Analysis Location
						Method	Instrument		
1	SAMPLE NO. 100001	100001							
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Spec. Sample #100001 to 100002
 ANALYSIS: COCaine
 DATE: 10/15/2015

LABORATORY: [unclear] 10/15/2015



Document Name
Sample Collection Logbook (SCL)
 Document No.
P-CAL-05-018 Rev 04

Document Revised: November 15, 2021
 Page Total:
10 pages
 Pico Analytical, Inc. 10000
 Pico Parkway, Suite 1000

Laboratory receiving samples:

Asheville Eden Greenwood Hendersonville Raleigh Mechanicsville Atlanta Knoxville

Vendor Information
 (Print Name)

Client Name:
GA Power

Project # **WQ# : 92585977**

Customer:
 Residential Public Utility Other

PI: MMB Due Date: 02/17/22
 CLIENT: GA-GA Power

On-Site Test Present? Yes No
 Test Method? Yes No

On-Site Test Person/Company: MMB 2/17/22

Packing Material: Bubble wrap Styrofoam Other
 Thermometer: Present Not Present

Biological Temperature? Yes No

Cooler Temp: 3.3 Container Factor: 1.0
 Adjusted Temp: 3.3

Items should be above freezing to ITC
 Items are frozen (include description of items and quantity)

Cooler Equipment used (Print):
 USDA Registered Tech: Yes, name: _____
 Do samples originate in a jurisdiction with the following State ID: GA (Print) (Print name)?
 Yes No

Do you allow use for a third party's benefit, information, including names and phone numbers?
 Yes No
 Commercial/Confidential

Check of Quality Present?	Yes	No	Days	
Samples received within total time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	2
Short Hold Time Analysis (20 to 12)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Days	3
High Temp Around Time Reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Days	4
Is there a volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	5
Correct Container used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	6
Are Containers clean?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	
Container sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	7
Discarded analysis Samples used Filtered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	8
Is there a label on the container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	9
Is there a date/time on the label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Days	
Is there a name on the label?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Days	10
Is there a phone number on the label?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Days	
Tray/Label Quality Test Present?	<input type="checkbox"/>	<input type="checkbox"/>	Days	11

Comments/Sample Description: _____
 Test Data Received: Yes No

Client Notification/Resolution: _____
 Date: _____

Person contacted: _____ Date/time: _____

Project Manager: MMB Review Date: _____
 Project Manager: MMB Review Date: _____

Quality Control Sample Performance Assessment

• **Procedure**

1. 100%
 2. 100%
 3. 100%
 4. 100%

• **Actual Quality Control Sample Performance**

Sample Name	Quality Control Sample Performance	Actual Quality Control Sample Performance
100% 100% 100% 100%	100% 100% 100% 100%	100% 100% 100% 100%

Sample Name	Quality Control Sample Performance	Actual Quality Control Sample Performance
100% 100% 100% 100%	100% 100% 100% 100%	100% 100% 100% 100%

Sample Name	Quality Control Sample Performance	Actual Quality Control Sample Performance
100% 100% 100% 100%	100% 100% 100% 100%	100% 100% 100% 100%

Sample Name	Quality Control Sample Performance	Actual Quality Control Sample Performance
100% 100% 100% 100%	100% 100% 100% 100%	100% 100% 100% 100%

Sample Name	Quality Control Sample Performance	Actual Quality Control Sample Performance
100% 100% 100% 100%	100% 100% 100% 100%	100% 100% 100% 100%

Handwritten signature

Handwritten signature

Quality Control Sample Performance Assessment

Project Name: [Project Name]

Location: [Location]
 Date: [Date]

Sample ID	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5

Sample ID	Sample Type	Sample Location	Sample Date	Sample Status
6
7
8
9
10

Sample ID	Sample Type	Sample Location	Sample Date	Sample Status
11
12
13
14
15

Sample ID	Sample Type	Sample Location	Sample Date	Sample Status
16
17
18
19
20

Sample ID	Sample Type	Sample Location	Sample Date	Sample Status
21
22
23
24
25

Notes: [Notes]

Quality Control Sample Performance Assessment

PERFORMANCE

Sample ID: 10000000000000000000
 Date: 10/10/2020
 Time: 10:00 AM

Parameter	Method	Result	Acceptance Criteria
Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Free Chlorine	DPD	0.8 mg/L	0.5 - 1.5 mg/L
Total Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Chlorine Demand	DPD	0.2 mg/L	0.0 - 0.5 mg/L

Parameter	Method	Result	Acceptance Criteria
Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Free Chlorine	DPD	0.8 mg/L	0.5 - 1.5 mg/L
Total Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Chlorine Demand	DPD	0.2 mg/L	0.0 - 0.5 mg/L

Parameter	Method	Result	Acceptance Criteria
Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Free Chlorine	DPD	0.8 mg/L	0.5 - 1.5 mg/L
Total Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Chlorine Demand	DPD	0.2 mg/L	0.0 - 0.5 mg/L

Additional Remarks: Enter data only as applicable to figure

Parameter	Method	Result	Acceptance Criteria
Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Free Chlorine	DPD	0.8 mg/L	0.5 - 1.5 mg/L
Total Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Chlorine Demand	DPD	0.2 mg/L	0.0 - 0.5 mg/L

Parameter	Method	Result	Acceptance Criteria
Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Free Chlorine	DPD	0.8 mg/L	0.5 - 1.5 mg/L
Total Chlorine	DPD	1.0 mg/L	0.5 - 1.5 mg/L
Chlorine Demand	DPD	0.2 mg/L	0.0 - 0.5 mg/L

Comments: This sample was analyzed as a duplicate of sample 10000000000000000000.

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10/10/2020

APPENDIX A

Field Data Forms

APPENDIX A

Field Calibration Forms

Project Plant Branch *Include daily mid-day pH check*
 Field Staff J. Waguespack / E. Rheams / E. O'Hondt

Instrument Calibration

Date: 9.21.21 | 9.22.21 | 9.23.21
 Time: 16:40 | 17:25 |

Parameter	Units	Standard	SmarTROLL SN <u>211013</u> iPad # <u>109</u>	SmarTROLL SN <u>211013</u> iPad # <u>109</u>	SmarTROLL SN _____ iPad # _____	SmarTROLL SN <u>211013</u> iPad # <u>109</u>
DO	% saturation	100	<u>98.21</u>	<u>111.71</u>		<u>98.26</u>
Conductivity	us/cm	4490	<u>4828.7</u>	<u>4448.9</u>		<u>4650.4</u>
pH	S.U.	4.00	<u>4.07</u>	<u>4.85</u>		<u>4.13</u>
pH	S.U.	7.00	<u>6.99</u>	<u>7.03</u>		<u>7.06</u>
pH	S.U.	10.00	<u>9.99</u>	<u>10.02</u>		<u>10.07</u>
ORP	mV	228.00	<u>194.0</u>	<u>212.2</u>		<u>212.8</u>

Turbidity	Units	Standard	LaMotte SN <u>4192-101</u>	LaMotte SN <u>4192-101</u>	LaMotte SN _____	LaMotte SN <u>4192-101</u>
	NTU	0.0	<u>0.6</u>	<u>0.8</u>		<u>0.0</u>
	NTU	1.0	<u>1.07</u>	<u>1.0</u>		<u>1.0</u>
	NTU	10.0	<u>9.16</u>	<u>9.4</u>		<u>7.89</u>

Date: 9.21.21 | 9.22.21 | 9.23.21
 Time: 12:35 | 12:32 | 12:09

Parameter	Units	Standard	SmarTROLL SN <u>211013</u> iPad # <u>109</u>	SmarTROLL SN <u>211013</u> iPad # <u>109</u>	SmarTROLL SN <u>211013</u> iPad # <u>109</u>	SmarTROLL SN _____ iPad # _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00	<u>9.84</u>		<u>9.06</u>	
pH	S.U.	7.00		<u>7.03</u>		
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Include daily mid-day pH check

Project Plant Branch
 Field Staff J. Waguespack / E. Rheams / E. D'Hondt

Instrument Calibration

Date: 9-23-21

Time: 7:57

9-28-21

7:52

Parameter	Units	Standard	SmarTROLL SN 870287 iPad # 109	SmarTROLL SN 872573 iPad # 81	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	96.62	95.57		
Conductivity	us/cm	4490	4333.3	4857		
pH	S.U.	4.00	3.94	4.05		
pH	S.U.	7.00	7.08	7.03		
pH	S.U.	10.00	10.15	9.99		
ORP	mV	228.00	230.3	171.8		

Turbidity	Units	Standard	LaMotte SN 6990-3715	LaMotte SN 4392-2714	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0	0.0		
	NTU	1.0	1.02	0.94		
	NTU	10.0	9.18	11.26		

Date:

Time:

9-28-21

12:45

Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	SmarTROLL SN 875571 iPad # 81	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00		4.02		
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project Plant Branch
 Field Staff J. Waguerpack / E. Rheams E. D'Hondt *Include daily mid-day pH check*

Instrument Calibration

Date: 9/22/21 9/22/21 9/23/21
 Time: 9:00 8:30 8:00

Parameter	Units	Standard	SmarTROLL SN 850751 iPad # 75	SmarTROLL SN 95075 iPad # 75	SmarTROLL SN 850751 iPad # 75	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	106.74	97.62	103.07	
Conductivity	us/cm	4490	4778.1	4427.8	4490	
pH	S.U.	4.00	4.05	4.08	3.95	
pH	S.U.	7.00	6.96	7.00	7.01	
pH	S.U.	10.00	10.06	10.08	10.03	
ORP	mV	228.00	229	228.8	241.7	

Turbidity	Units	Standard	LaMotte SN 1510-4111	LaMotte SN 1510-4111	LaMotte SN 1510-4111	LaMotte SN _____
	NTU	0.0	0.04	0.04	0.01	
	NTU	1.0	1.0	1.08	1.17	
	NTU	10.0	10.0	10.22	10.00	

Date:
Time:

Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential;
 mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

include daily mid-day pH check

Project Plant Branch
 Field Staff J. Wagener / E. Rheans / E. D'Hondt / D. Hanna

Instrument Calibration

Date: 9/27/2021 / 1056
 Time: 9:27/2021 / 1056

Parameter	Units	Standard	SmartTROLL SN 20525 iPad # 38	SmartTROLL SN _____ iPad # _____	SmartTROLL SN _____ iPad # _____	SmartTROLL SN _____ iPad # _____
DO	% saturation	100	90.83			
Conductivity	us/cm	4490	4929.6			
pH	S.U.	4.00	4.16			
pH	S.U.	7.00	7.11			
pH	S.U.	10.00	10.03			
ORP	mV	228.00	201.7			

	Units	Standard	LaMotte SN 26362	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0	0.02			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 9/28/2021
 Time: 7:26

Parameter	Units	Standard	SmartTROLL SN 20525 iPad # 38	SmartTROLL SN _____ iPad # _____	SmartTROLL SN _____ iPad # _____	SmartTROLL SN _____ iPad # _____
DO	% saturation	100	92.01			
Conductivity	us/cm	4490	3925.0			
pH	S.U.	4.00	3.30			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	10.05			
ORP	mV	228.00	234.6			

	Units	Standard	LaMotte SN 26362	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0	0.01			
	NTU	1.0	1.00			
	NTU	10.0	10.00			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential;
 mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project Plant Branch *"Include daily mid-day pH check"*
 Field Staff J. Waguespack, D. Fulton, J. Booth, ~~J. Barkhead~~

B. Steele

Instrument Calibration

		Date:	2/1/22			
		Time:	09:31			
Parameter	Units	Standard	SmartROLL SN <u>858767</u> iPod # <u>31</u>	Mid-Day pH	SmartROLL SN _____ iPod # _____	Mid-Day pH
DO	% saturation	100	96.75	-----		-----
Conductivity	us/cm	4400	4285.0	-----		-----
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	10.16			
ORP	mV	228.00	291.1	-----		-----

H6CH

Turbidity	Units	Standard	LaMotte SN <u>(20506077)</u>	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	<u>0.10</u>	19.9			
	NTU	<u>1.00</u>	10.6			
	NTU	<u>10.00</u>	81.5			

10.0 10.9

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPod # _____	Mid-Day pH	SmartROLL SN _____ iPod # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4400		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolt; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Include daily mid-day pH check

Project Plant Branch
 Field Staff J. Wagunspack, D. Fulton, J. Booth, J. Barkhead

Instrument Calibration

		Date/Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		.....		.....
Conductivity	us/cm	4400		.....		.....
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	328.00		.....		.....

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

		Date/Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		.....		.....
Conductivity	uS/cm	4400		.....		.....
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	328.00		.....		.....

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen, us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential, mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project Plant Branch *'Include daily mid-day pH check'*
 Field Staff J. Waguespack, D. Fulton, J. Booth, J. Barthelme

Instrument Calibration

		Date: 2/1/22		Date: 2/2/22		
		Time:		Time:		
Parameter	Units	Standard	SmartROLL SN 378285 IPad # 75	Mid-Day pH	SmartROLL SN 373285 IPad # 76	Mid-Day pH
DO	% saturation	100	100.92	-----	100.47	-----
Conductivity	us/cm	4400	4332.4	-----	4322.4	-----
pH	S.U.	4.00	4.00	4.00	4.00	4.03
pH	S.U.	7.00	7.02	7.00	7.02	7.04
pH	S.U.	10.00	10.06	10.07	10.04	10.10
ORP	mV	328.00	326.4	-----	323.5	-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	10.0	10.2	10.2	10.24	10.02
	NTU	20.0	20.0	20.2	20.21	20.05
	NTU	100.0	100.6	100.9	100.00	100.00

		Date: 2/3/22		Date: 2/4/22		
		Time:		Time:		
Parameter	Units	Standard	SmartROLL SN 373285 IPad # 76	Mid-Day pH	SmartROLL SN 343285 IPad # 77	Mid-Day pH
DO	% saturation	100	100.5%	-----	95.67	-----
Conductivity	us/cm	4400	4362.2	-----	4340.7	-----
pH	S.U.	4.00	4.00	4.02	4.04	
pH	S.U.	7.00	7.02	7.10	7.04	
pH	S.U.	10.00	10.04	10.04	10.05	
ORP	mV	328.00	327.15	-----	327.4	-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	10.0	10.1	10.03	10.0	
	NTU	20.0	20.1	20.0	20.0	
	NTU	100.0	100	100	100	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential
 mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Include daily mid-day pH check

Project Plant Branch
 Field Staff J. Wagunspack, D. Fulton, J. Booth, J. Bankhead

Instrument Calibration

		Date: _____ Time: _____				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		*****		*****
Conductivity	us/cm	4490		*****		*****
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		*****		*****

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

		Date: _____ Time: _____				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		*****		*****
Conductivity	us/cm	4490		*****		*****
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		*****		*****

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project: Plant Branch *Include daily mid-day pH check*
 Field Staff: J. Weguespack, D. Fulton, J. Booth, J. Barkhead

Instrument Calibration

		Date: 02/01/22		Date: 02/02/22		
		Time: 05:56		Time: 00:45		
Parameter	Units	Standard	SmartROLL BN 850751 iPad # _____	Mid-Day pH	SmartROLL BN 850751 iPad # _____	Mid-Day pH
DO	% saturation	100	100.4	-----	99.5	-----
Conductivity	us/cm	4490	4539.1	-----	4467.0	-----
pH	S.U.	4.00	4.04	4.02	3.95	
pH	S.U.	7.00	7.02	7.03	6.95	
pH	S.U.	10.00	10.06	10.05	10.13	
ORP	mV	328.00	321.5	-----	325.2	-----

Turbidity	Units	Standard	LaMotte BN HACH	LaMotte BN HACH	LaMotte BN HACH	LaMotte BN
	NTU	10.00	9.7	10.1	9.7	
	NTU	20.00	18.2	18.7	18.1	
	NTU	100.00	102.1	106.3	107.9	

		Date: 02/03/22		Date: 02/04/22		
		Time: 8:10		Time: 06:02		
Parameter	Units	Standard	SmartROLL BN 850751 iPad # _____	Mid-Day pH	SmartROLL BN 850751 iPad # _____	Mid-Day pH
DO	% saturation	100	98.5	-----	96.5	-----
Conductivity	us/cm	4490	4480.6	-----	4517.8	-----
pH	S.U.	4.00	4.01	4.09	3.98	
pH	S.U.	7.00	7.02	7.04	6.98	
pH	S.U.	10.00	10.04	9.95	10.04	
ORP	mV	328.00	321.1	-----	321.4	-----

Turbidity	Units	Standard	LaMotte BN HACH	LaMotte BN	LaMotte BN HACH	LaMotte BN
	NTU	20.00	22.1	/	20.2	
	NTU	100.00	111.0	/	101	
	NTU	500.00	359	/	341	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Include daily mid-day pH check

Project Plant Branch
 Field Staff J. Waguespack, D. Fulton, J. Booth, J. Bamstead

Instrument Calibration

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4490		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4490		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project: Plant Branch **Include daily mid-day pH check**
 Field Staff: J. Wagenaar, D. Fulton, J. Booth, J. Barkhead

Instrument Calibration

Parameter	Units	Standard	Date: 2/1/22		Date: 2/2/22	
			SmartROLL SN 25193 iPod #	Mid-Day pH	SmartROLL SN 25193 iPod #	Mid-Day pH
DO	% saturation	100	73.03	.....	100.03	.....
Conductivity	uS/cm	4400	4449.2	.....	4446.8	.....
pH	S.U.	4.00	7.06	.....	7.04	.....
pH	S.U.	7.00	6.98	.....	7.00	7.02
pH	S.U.	10.00	10.00	10.04	9.98	.....
ORP	mV	228.00	209.0	.....	224.7	.....

Turbidity	Units	Standard	LaMotte SN 1131102624	LaMotte SN	LaMotte SN 1110602745	LaMotte SN
	NTU	0.020	18.5	17.7
NTU	2.0100	102	.....	.....	99.4	.....
NTU	100.000	750	.....	.....	79.4	.....

Parameter	Units	Standard	Date: 2/3/22		Date: 2/4/22	
			SmartROLL SN 25193 iPod #	Mid-Day pH	SmartROLL SN 25193 iPod #	Mid-Day pH
DO	% saturation	100	100.93	.....	102.34	.....
Conductivity	uS/cm	4400	4446.1	.....	4501.9	.....
pH	S.U.	4.00	7.02	.....	7.01	.....
pH	S.U.	7.00	7.02	.....	7.01	.....
pH	S.U.	10.00	10.02	.....	10.01	.....
ORP	mV	228.00	224.3	.....	225.2	.....

Turbidity	Units	Standard	LaMotte SN 1110602745	LaMotte SN	LaMotte SN 1110602745	LaMotte SN
	NTU	0.020	20.1	20.1
NTU	2.0100	100	.....	.....	101	.....
NTU	100.000	750	.....	.....	70.5	.....

Notes: DO - Dissolved Oxygen; uS/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolt; NTU - Nephelometric Turbidity Units; NC - Not calibrated.

Include daily mid-day pH check

Project Plant Branch
 Field Staff J. Waguespack, D. Fulton, J. Booth, J. Bankhead

Instrument Calibration

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4490		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4490		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

APPENDIX A

Water Level Measurements

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

JOSE WARRSPACK 1/3

Well ID	Old Well ID	Northing (feet)	Easting (feet)	Total Depth (feet BDC)	Top of Casing Elevation (ft MSL)	Pond T (ft L)	Depth to Water (ft BDC)	Time	Comments
BROWA-25	P2-25	1167145	2549953	44.80	440.20	190TH	12.94	17:11	
BROWA-27	P2-27	1167130	2549957	54.30	440.14	190TH	12.14	17:25	
BROWA-28	P2-28	1170178	2549419	40.80	440.86	190TH	11.85	17:12	overflow
BROWA-31	P2-31	1170184	2549428	61.20	440.79	190TH	11.76	17:11	overflow
BROWA-45	P2-45	1170730	2551041	49.70	458.96	190TH	26.52	13:37	
BROWA-125	P2-125	1164287	2557142	58.30	404.64	190D	EA		
BROWA-126	P2-126	1164301	2557128	77.80	404.38	190D	I		
BROWA-226	P2-226	1162872	2557888	60.80	408.24	190D	I		
BROWC-29	P2-29	1165094	2561210	29.50	391.27	190D	ED		
BROWC-27	P2-27	1165095	2561212	24.00	388.89	190D	I		
BROWC-29	P2-29	1165098	2561080	20.00	393.20	190D	I		
BROWC-30	P2-30	1161608	2557940	20.25	392.81	190D	I		
BROWC-326	P2-326	1168078	2558498	41.00	408.38	190D	37.70	16:37	
BROWC-335	P2-335	1168257	2554585	29.40	414.68	I	11.95	12:07	
BROWC-345	P2-345	1167384	2554231	20.80	397.98	I	8.00	12:05	
BROWC-355	P2-355	1169048	2564678	27.40	398.91	I	1.50	12:59	
BROWC-178	P2-178	1166300	2564888	7.10	385.92	I	5.92	12:24	sewer pump
BROWC-365	P2-365	1163743	2564933	28.70	399.84	I	5.18	12:21	sewer pump
BROWC-375	P2-375	1165080	2564990	60.88	407.00	I	50.85	12:19	
BROWC-385	P2-385	1164980	2565017	38.20	402.24	I	27.05	11:40	
BROWC-40	P2-40	1162280	2561076	67.00	384.58	190D	ED		sample pit; pump to install
BROWC-47	P2-47	1162701	2562407	60.00	411.20	190D	EA		sample pit; pump to install
BROWC-58	P2-58	1161988	2562379	80.00	381.30	190D	ED		sample pit; pump to install
BROWC-42	P2-52	1161275	2562140	71.90	383.87	190D	I		sample pit; pump to install
P2-50		1161388	2562281	106.00	380.86	190D	I		Deactivation Well - sample
P2-51		1161810	2562433	49.40	380.27	190D	I		Deactivation Well - sample
P2-51		1161851	2562438	60.00	380.52	190D	I		Deactivation Well - sample
P2-51D		1161840	2562434	100.00	380.75	190D	I		Deactivation Well - sample
P2-57		1161382	2562170	75.80	380.89	190D	I		Deactivation Well - sample
P2-58		1161378	2562196	60.90	382.27	190D	I		Deactivation Well - sample
P2-59		1161855	2562440	60.50	380.48	190D	I		Water well only
P2-60		1161388	2562311	60.80	380.41	190D	I		Deactivation Well - sample
P2-61		1161822	2562430	76.00	380.84	190D	I		Deactivation Well - sample

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

Jul 2/3

Well-ID	Old Well-ID	Northing	Easting	Total Depth	Top of Casing Elevation	Point	Depth to Water	Time	Comments
		(Elev)	(Elev)	(Feet BGL)	(Elev)	(F.W.)	(Feet BGL)		
PZ-08	NA	1171998	2551548	85.00	488.27		37.40	13:25	
PZ-9	NA	1171998	2551578	79.00	484.71		58.38	13:44	
PZ-10	NA	1171998	2551998	180.00	483.41		37.70	13:57	
PZ-28	NA	1165485	2552278	59.00	492.51		dry	14:25	
PZ-21	NA	1165420	2552273	54.00	489.48		50.76	14:27	
PZ-30	NA	1165474	2552278	120.00	487.50		49.00	14:33	
PZ-45	NA	1165348	2551270	30.00	482.87		dry	14:58	
PZ-41	NA	1165347	2551240	48.00	482.88		34.40	14:58	
PZ-75	NA	1165478	2552050	44.00	471.57		23.34	15:13	dry - 97.0'
PZ-85	NA	1167180	2551180	49.00	473.08		34.46	15:19	
PZ-86	NA	1165233	2552000	48.00	469.28		37.33	15:24	
PZ-105	NA	1165227	2554901	39.00	435.85		26.55	11:33	
PZ-115	NA	1162487	2557003	34.00	380.88		dry		
PZ-120	NA	1164312	2567138	141.70	434.08		dry		
PZ-138	NA	1168011	2552217	34.70	428.87		27.70	15:23	
PZ-140	NA	1168008	2554338	37.40	423.31		22.92	15:25	
PZ-146	NA	1168008	2554308	61.40	420.71		15.70	15:26	
PZ-155	NA	1167720	2554394	39.00	422.80		18.45	12:57	
PZ-156	NA	1167721	2554398	88.70	422.08		18.78	12:57	
PZ-165	NA	1168078	2554381	39.70	382.52		12.80	12:43	
PZ-161	NA	1168081	2554388	38.80	382.45		11.90	12:45	
PZ-171	NA	1168214	2554702	42.50	383.33		2.93	12:26	
PZ-185	NA	1168757	2567747	34.20	461.42		dry		
PZ-196	NA	1162788	2567748	88.40	382.93				
PZ-195	NA	1155403	2558895	28.00	371.42				
PZ-199	NA	1168797	2568800	40.70	371.79				
PZ-200	NA	1158480	2562187	15.30	383.41				
PZ-201	NA	1158485	2562188	29.00	383.24				
PZ-215	NA	1160080	2561321	9.00	358.52				
PZ-214	NA	1160080	2561328	24.40	358.92				
PZ-245	PHW-245	1162401	2562982	41.00	354.10				
PZ-281	NA	1160000	2561528	30.00	370.83				
PZ-281	NA	1169000	2562182	24.00	364.81				
PZ-218	NA	1160007	2567872	39.00	376.77				
PZ-23	NA	1162870	2557878	88.00	427.74		dry		
PZ-28	PZ-200	1163878	2567481	44.70	434.78		dry		

BA-2 (20-12)

TDC 14:50 overflow, no lock
no access AD

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

Jw 3/3

Well ID	OH Well ID	Northing	Easting	Total Depth	Top of Casing Elevation	Point	Depth to Water	Time	Comments
		(feet)	(feet)	(feet BTCC)	(BTCC)	(in)	(BTCC)		
PZ-405	NA	1162415	2502808	40.00	395.96		ED		
PZ-415	NA	1162402	2502799	44.00	397.17				
PZ-425	NA	1162398	2502798	32.20	391.86				
PZ-43	NA	1162762	2502221	40.40	393.71				
PZ-44	NA	1161729	2501380	37.80	382.04				
PZ-46	NA	1162756	2502820	48.80	389.94				
PZ-48	NA	1162047	2504445	67.80	429.86		EA		
PZ-49	NA	1162221	2501128	37.80	389.92		ED		
PZ-620		1164054	2504032	84.90	417.02	JL	15.60	15:07	
PZ-630		1164094	2504084	128.40	434.86	JL	22.40	11:59	
PZ-64		1164829	2505438	52.90	442.86	JL	EA		
PZ-65		1162028	2504784	48.30	432.07	JL	46.30	15:07	
PZ-66		1162085	2504200	28.30	418.84	JL	7.22	15:28	
WB-C-1				28.80			ED		
WB-B-1				42.40			ED		
WB-D-1				79.80			19.80	16:05	DMT
WB-E-1				33.80			9.90	17:00	
WB-B-2				16.10			ED		
WB-C-2				28.80			ED		
WB-D-2				50.80			20.44	16:36	
PB-75		1164211	2506208	38.00	403.16		EA		
PB-80		1164524	2506914	57.00	418.71				
PB-85		1164526	2506283	48.00	411.16				
PB-80		1164540	2506281	114.50	412.12				
PB-75		1162821	2506186	35.00	432.86		22.40	15:52	OVERABSORBED, NO ACCESS
PB-85		1162718	2506792	55.00	431.82		EA		
PB-80		1162024	2506787	106.00	431.76				
PB-108		1162088	2506601	30.00	400.91				
PB-100		1162033	2506347	80.00	400.21				
PB-128		1162084	2506628	80.00	373.21				
PB-130		1162085	2506628	87.00	373.21				

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

Erik Ruess 1/3

Well ID	Old Well ID	Numbering	Existing	Total Depth	Top of casing Elevation	Point	Depth to Water	Time	Comments
		(200)	(200)	Top BTCC	W. 200L	1 or 2	W. BTCC		
BROWA-25	PZ-25	1187140	2549953	44.90	443.20	1807H			
BROWA-27	PZ-27	1187130	2549957	84.25	443.14	1807H			
BROWA-83	PZ-83	1179178	2549418	40.00	443.86	1807H			
BROWA-87	PZ-87	1179184	2549428	61.23	443.79	1807H			
BROWA-85	PZ-85	1179732	2551541	45.70	458.98	1807H			
BROWA-125	PZ-125	1184287	2557143	58.20	434.84	1800	58.20	1428	
BROWA-126	PZ-126	1184303	2557138	77.80	434.28	1800	49.97	1428	
BROWA-235	PZ-235	1182172	2557888	40.80	438.24	1800	37.03	1254	
BROWA-236	PZ-236	1182584	2561315	20.50	387.37	1800			
BROWA-271	PZ-271	1198888	2580712	24.00	388.88	1800			
BROWA-281	PZ-281	1180388	2561080	28.00	383.23	1800			
BROWA-301	PZ-301	1181608	2557982	25.25	382.81	1800			
BROWA-328	PZ-328	1188878	2554488	41.00	408.28	1800			
BROWA-338	PZ-338	1188857	2554088	25.40	418.88	1800			
BROWA-348	PZ-348	1187384	2554251	23.80	381.88	1800			
BROWA-358	PZ-358	1188848	2554478	27.40	388.21	1800			
BROWA-178	PZ-178	1188882	2554888	7.10	388.30	1800			servo pump
BROWA-368	PZ-368	1185142	2554882	28.70	388.84	1800			servo pump
BROWA-378	PZ-378	1187882	2554882	83.58	447.25	1800			
BROWA-388	PZ-388	1184382	2555217	38.20	432.24	1800			
BROWA-48	PZ-48	1182238	2561078	57.00	384.58	1800			servo pump
BROWA-47	PZ-47	1182751	2559487	60.00	411.20	1800	25.76	1219	servo pump
BROWA-84	PZ-84	1181588	2562375	48.00	381.38	1800			servo pump
BROWA-82	PZ-82	1181275	2562145	73.90	383.87	1800			servo pump
PZ-885		1181588	2562387	108.00	380.98	1800			Assessment Well - servopump
PZ-818		1181413	2562423	45.40	380.27	1800			Assessment Well - servopump
PZ-811		1181831	2562439	63.20	380.52	1800			Assessment Well - servopump
PZ-810		1181843	2562434	108.00	380.75	1800			Assessment Well - servopump
PZ-871		1181082	2562170	73.00	382.50	1800			Assessment Well - servopump
PZ-88		1181075	2562288	63.00	382.37	1800			Assessment Well - servopump
PZ-89		1181855	2562350	85.00	380.48	1800			Water level only
PZ-89		1181888	2562311	60.00	380.81	1800			Assessment Well - servopump
PZ-811		1181822	2562430	78.00	380.84	1800			Assessment Well - servopump

TABLE 1
 PLANT BRANCH GROUNDWATER SAMPLING
 WATER LEVEL MONITORING ON 09-20-2021

ER 2/3

Well ID	Old Well ID	Northing (feet)	Easting (feet)	Total Depth (feet)	Top of Casing Elevation (feet)	Flow L/s	Depth to Water (feet)	Time	Comments
PZ-18	NA	1171906	2551588	95.00	455.57				
PZ-19	NA	1171906	2551578	79.50	454.71				
PZ-20	NA	1171906	2551588	90.00	455.41				
PZ-25	NA	1185481	2552075	29.50	450.53				
PZ-30	NA	1185400	2552073	54.00	450.48				
PZ-30	NA	1185474	2552075	130.00	457.50				
PZ-45	NA	1185248	2551270	30.00	452.87				
PZ-46	NA	1185247	2551282	45.00	452.95				
PZ-75	NA	1185419	2552098	44.00	451.57				
PZ-85	NA	1187301	2551189	45.50	451.58				
PZ-95	NA	1182833	2550080	48.00	458.28				
PZ-105	NA	1184332	2554991	29.00	423.81				
PZ-115	NA	1182487	2557900	24.00	395.98		16.93	1308	
PZ-120	NA	1184312	2557136	141.70	434.58		25.90	1428	
PZ-135	NA	1188811	2558277	54.78	409.87				
PZ-145	NA	1188390	2556709	37.00	423.21				
PZ-146	NA	1188398	2556708	33.00	422.71				
PZ-155	NA	1187730	2554394	58.00	402.90				
PZ-156	NA	1187721	2554399	68.78	402.98				
PZ-165	NA	1188278	2554981	19.10	382.52				
PZ-166	NA	1188281	2554988	28.00	382.45				
PZ-175	NA	1188314	2554700	43.00	385.33				
PZ-185	NA	1188757	2557747	24.25	382.82				
PZ-186	NA	1188758	2557746	38.40	382.55				
PZ-195	NA	1188800	2558800	28.00	371.42				
PZ-196	NA	1188757	2558800	43.78	371.74				
PZ-205	NA	1188498	2560157	15.00	365.41				
PZ-206	NA	1188495	2560160	29.00	365.34				
PZ-215	NA	1188990	2561321	9.00	358.52				
PZ-216	NA	1188990	2561328	24.40	358.52				
PZ-245	WINDMILL 245	1182401	2562882	42.00	354.10				
PZ-260	NA	1188959	2561626	30.00	370.83				
PZ-261	NA	1188955	2561752	24.00	364.81				
PZ-215	NA	1188837	2557912	28.00	378.77				
PZ-23	NA	1182875	2557878	90.00	427.74		36.51	1234	
PZ-23	PZ-235	1182875	2557881	44.78	424.78		48.86	1815	

PB-19 9.18 45.52

PB-17 25.52 45.55

PB-16 25.74 45.84

PB-15 16.72 30.09

PB-18 17.86 41.77

PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

ER 1/3

Well ID	Old Well ID	Northing (feet)	Easting (feet)	Total Depth (feet BTCC)	Top of Casing Elevation (MGS)	Point T or J	Depth to Water (BTCC)	Time	Comments
PZ-405	NA	1162415	2562308	40.20	355.96				
PZ-415	NA	1162402	2562755	44.20	357.17				
PZ-425	NA	1162546	2562735	33.20	361.66				
PZ-43	NA	1162450	2562551	40.40	363.71				
PZ-44	NA	1161725	2561585	57.20	363.04				
PZ-45	NA	1162756	2560559	45.65	364.64				
PZ-46	NA	1163067	2558445	67.00	420.85		30.61	1213	
PZ-49	NA	1163021	2561126	57.00	366.89				
PZ-520		1166054	2554952	65.50	417.23	J			
PZ-530		1164234	2554584	126.40	404.68	J			
PZ-54		1164829	2555458	52.00	403.60	J	2.14	1125	No stickup or pit
PZ-55		1163256	2554784	46.30	403.07	J			
PZ-56		1162965	2554086	29.30	416.64	J			
SW-C-1				25.60					
SW-B-1				42.40					
SW-D-1				19.60					
SW-E-1				22.80					
SW-B-2				16.10					
SW-C-2				28.80					
SW-D-2				33.60					
PB-19		1164911	2556598	34.00	400.16		17.06	1643	Same
PB-20		1164854	2556974	57.00	416.71		28.04	1434	No stickup, Pit, or I.D.
PB-43		1164035	2556069	46.00	411.13		24.04	1334	
PB-40		1164040	2556061	114.00	402.12		25.11	1224	
PB-75		1163821	2556196	23.00	402.86				
PB-85		1163816	2556750	36.00	401.82		19.24	1244	Same
PB-80		1163824	2556757	104.00	401.74		20.19	1244	Same
PB-105		1163569	2556551	33.00	406.41		13.79	1245	No stickup, Pit, or I.D.
PB-100		1163203	2556547	66.00	400.31		13.35	1233	Same
PB-125		1163264	2556626	60.00	375.31		8.47	1315	Same
PB-130		1163280	2556639	67.00	375.77		9.16	1315	Same

47.45 @ 1533

**PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021**

ERIN D'AMOT 1/3

Well ID	Old Well ID	Northing (feet)	Easting (feet)	Total Depth feet (BTOC)	Top of Casing Elevation (BMSL)	Pond T.S.L.	Depth to Water (BTOC)	Time	Comments
BRDWA-25	P2-25	1167140	2549957	44.80	403.20	BRDTH			
BRDWA-26	P2-26	1167130	2549957	54.30	403.14	BRDTH			
BRDWA-55	P2-55	1170178	2549418	40.80	443.80	BRDTH			
BRDWA-56	P2-56	1170184	2549408	51.20	443.75	BRDTH			
BRDWA-65	P2-65	1170730	2551541	49.70	458.90	BRDTH			
BRDWA-125	P2-125	1164287	2557143	58.30	434.64	BRCD			
BRDWA-131	P2-131	1164301	2557139	71.60	434.38	BRCD			
BRDWA-208	P2-208	1162772	2547989	40.60	439.24	BRCD			
BRDWC-19	P2-29	1160584	2561315	30.50	387.37	BRCD	9.10	11:00	
BRDWC-175	P2-175	1168303	2554112	24.00	386.80	BRCD	10.10	11:25	
BRDWC-29	P2-29	1160288	2561060	30.00	383.33	BRCD	10.10	11:00	
BRDWC-38	P2-30	1161608	2557940	29.24	352.61	BRCD	11.52	11:30	
BRDWC-125	P2-125	1168879	2558406	45.80	406.39	BRCD			
BRDWC-133	P2-133	1168357	2554201	26.40	419.68	JR			
BRDWC-148	P2-148	1167584	2554231	25.90	391.86	JR			
BRDWC-153	P2-153	1168548	2554476	27.40	388.21	JR			
BRDWC-176	P2-176	1168362	2554688	7.10	385.32	JR			variable pump
BRDWC-363	P2-363	1169143	2554680	28.70	389.84	JR			variable pump
BRDWC-375	P2-375	1169240	2554980	63.60	367.06	JR			
BRDWC-383	P2-383	1164700	2559217	38.20	432.34	JR			
BRDWC-48	P2-48	1162230	2561078	37.00	384.58	BRCD	11.31	11:10	single pit
BRDWC-47	P2-47	1162701	2559457	50.00	411.20	BRCD			single pit
BRDWC-50	P2-50	1161583	2562373	60.00	391.35	BRCD	29.37	11:05	single pit
BRDWC-58	P2-58	1161075	2562140	73.80	383.47	BRCD	34.32	11:30	single pit
P2-600		1161589	2562391	104.00	380.90	BRCD	35.02	11:30	Assessment Well - single pit
P2-615		1161611	2562403	41.40	380.27	BRCD	38.52	11:35	Detention Well - single pit
P2-631		1161621	2562439	60.00	380.52	BRCD	39.52	11:40	Assessment Well - single pit
P2-610		1161640	2562434	100.00	380.75	BRCD	40.78	11:40	Detention Well - single pit
P2-671		1161582	2562170	75.30	382.50	BRCD	46.78	11:10	Detention Well - single pit
P2-681		1161578	2562194	60.80	382.37	BRCD	47.05	11:10	Detention Well - single pit
P2-684		1161605	2562340	60.80	382.48	BRCD	49.26	11:10	Detention Well - single pit
P2-691		1161588	2562331	60.80	382.61	BRCD	49.79	11:10	Detention Well - single pit
P2-693		1161602	2562430	70.00	380.84	BRCD	47.78	11:30	Assessment Well - single pit

34.10
37.94
35.70

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

ED 2/3

Well ID	Old Well ID	Northing Elev	Eastng Elev	Total Depth Over BTCC	Top of Casing Elevation (B.M.S.)	Pond Elev	Depth to Water (B.T.C.C.)	Flow	Comments
PZ-18	NA	1171888	2551588	85.00	455.87				
PZ-9	NA	1171888	2551578	79.00	454.71				
PZ-10	NA	1171888	2551588	90.00	453.81				
PZ-25	NA	1185485	2552275	59.80	459.53				
PZ-26	NA	1185495	2552275	54.00	459.48				
PZ-30	NA	1185474	2552275	130.00	457.50				
PZ-48	NA	1185248	2551270	30.00	452.87				
PZ-49	NA	1185247	2551280	49.80	452.89				
PZ-78	NA	1185418	2553398	44.50	451.57				
PZ-85	NA	1187821	2551180	49.50	452.28				
PZ-89	NA	1182833	2553090	49.00	455.28				
PZ-108	NA	1184022	2554381	33.00	453.85				
PZ-115	NA	1182487	2587000	24.00	399.88				
PZ-120	NA	1184312	2557138	141.70	434.38				
PZ-128	NA	1188011	2555277	54.70	455.87				
PZ-143	NA	1188388	2554338	37.80	423.31				
PZ-146	NA	1188398	2554398	53.80	423.71				
PZ-155	NA	1187720	2554334	38.90	452.90				
PZ-158	NA	1187721	2554338	48.70	453.06				
PZ-163	NA	1188078	2554581	18.10	382.52				
PZ-166	NA	1188881	2554588	38.80	382.40				
PZ-175	NA	1188214	2554703	43.00	385.33				
PZ-185	NA	1188232	2557747	24.00	382.80		21.05	1403	
PZ-190	NA	1188788	2557748	38.40	382.50		21.05	1403	
PZ-195	NA	1188885	2558885	28.80	371.40		11.85	1403	
PZ-198	NA	1188797	2558880	43.70	371.74		11.51	1403	
PZ-205	NA	1188490	2560197	18.30	368.41		11.62	1430	
PZ-208	NA	1188490	2560190	29.50	368.24		12.55	1430	
PZ-215	NA	1188580	2561321	9.80	358.52		10.71	1350	
PZ-218	NA	1188580	2561328	24.40	358.92		11.2	1355	
PZ-245	BRWC-245	1182401	2562862	42.80	394.10		11.02	1403	
PZ-260	NA	1183888	2561428	30.90	378.83		22.63	1403	
PZ-268	NA	1188888	2561152	24.80	364.81		15.34	1410	
PZ-275	NA	1188887	2557972	26.50	378.77		21.24	1512	
PZ-280	NA	1188878	2561878	48.50	427.74				
PZ-288	PZ-225	1188878	2557481	44.70	424.78				

~~PZ-225~~
~~BRWC-225~~
~~PZ-415~~
~~PZ-405~~
~~PZ-43~~
~~PZ-44~~
~~BRWC-521~~
~~IWC-1~~
~~PZ-261~~
~~BRWC-251~~
~~PZ-211~~
~~PZ-215~~
~~BRWC-211~~

~~BRWC-271~~
~~PZ-201~~
~~PZ-281~~
~~PZ-205~~
~~PZ-191~~
~~PZ-195~~
~~BRWC-529~~
~~PZ-131~~
~~PZ-135~~
~~PZ-138~~

~~BRWC-131~~
~~IWC-1~~
~~IWC-2~~
~~BRWC-47~~
~~PZ-40~~
~~EWB-26~~ could be cut out
~~PZ-49~~
~~BRWC-50~~
~~PZ-511~~
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PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 09-20-2021

ED 2/3

Well ID	Old Well ID	Northing (feet)	Easting (feet)	Total Depth (feet @ 100)	Top of Casing Elevation (ft MSL)	Pond (ft)	Depth to Water (ft @ 100)	Time	Comments
PZ-403	NA	1162415	2562908	40.20	393.98		16.03	1135	
PZ-418	NA	1162432	2562739	44.00	397.17		17.23	1140	
PZ-426	NA	1162949	2562736	32.20	391.68		20.71	1120	well good condition
PZ-43	NA	1162160	2562551	45.40	393.71		21.71	1240	
PZ-44	NA	1161723	2561589	37.20	393.34		23.17	1215	15
PZ-46	NA	1162756	2562550	43.40	394.54		21	1520	
PZ-48	NA	1162047	2562445	37.00	420.20				
PZ-49	NA	1161321	2561126	17.00	284.69		10.99	12:00	
PZ-120		1166254	2554052	99.00	411.00	JE			
PZ-120		1164284	2554354	126.40	434.88	JE			
PZ-54		1164829	2553408	52.00	443.86	JE			
PZ-55		1163228	2554734	49.30	453.07	JE			
PZ-56		1162969	2554099	29.30	418.94	JE			
SW-C-1				20.00			14.1	1515	
SW-B-1				42.40			20.77	1545	
SW-D-1				19.00					
SW-E-1				33.00					
SW-B-2				19.10			5.5	1550	overgrown
SW-C-2				28.00			16.27	1545	
SW-D-2				32.00					
PB-16		1164911	2560708	38.00	403.16				
PB-20		1164954	2560914	37.00	416.71				
PB-42		1164335	2555059	48.00	411.15				
PB-40		1164340	2555061	114.00	412.12				
PB-76		1163801	2560188	33.00	402.88				
PB-85		1163018	2560782	35.00	401.82				
PB-80		1163024	2560787	108.00	401.74				
PB-108		1163588	2560051	33.00	400.91				
PB-100		1163593	2560047	49.00	400.31				
PB-126		1162984	2560026	30.00	373.21				
PB-120		1162085	2560029	37.00	373.17				

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

JB

Well ID	Site Well ID	Starting Depth	Ending Depth	Total Depth (m)	Top of casing Elevation (m)	Point (m)	Depth to Water (m)	Time	Comments
PD-003	1000010	2000000	40.00	2000.00	15.72	11.28	12:50		
PD-010	1000000	2000700	40.00	2017.00	10.95	11.20	12:52		
PD-020	1000000	2000700	50.00	2017.00	20.80	11.21	12:51		
PD-03	1000100	2000000	40.00	2017.00	20.54	11.11	13:24		
PD-04	1001700	2001000	57.00	2003.00	26.04	11.00	13:30	partially	
PD-05	1002700	2000000	40.00	204.00	4.00	1.00	13:34		
PD-06	1000007	2000000	67.00	200.00		20.00			
PD-08	1000007	2001100	17.00	204.00	9.0	11.00	14:4		
PD-020	1000004	2000000	50.00	417.00		11.00			
PD-030	1000000	2000000	100.00	404.00		11.00			
PD-04	1000000	2000000	60.00	400.00		41.00			
PD-05	1000000	2000700	60.00	400.00		41.00			
PD-06	1000000	2000700	20.00	410.00		1.00			
WD-0-1			60.00		19.49	11.10	15:13		
WD-0-1			40.00		20.26	11.11	15:16	partially	
WD-0-1			10.00		19.94	11.10	14:58		
WD-0-1			50.00			1.00			
WD-0-2			10.00		5.18	1.00	13:22	partially	
WD-0-2			20.00		13.64	11.11	15:06		
WD-0-2			60.00		21.81	11.04	14:47		
PD-08	1000010	2000100	60.00	401.00		11.00			
PD-09	1000000	2000010	57.00	400.71		20.00			
PD-09	1000000	2000000	40.00	411.00		11.00			
PD-40	1000000	2000000	110.00	410.00		20.11			
PD-70	1000000	2000100	60.00	400.00		21.00		partially	
PD-80	1000010	2000700	60.00	401.00		10.00			
PD-90	1000000	2000700	100.00	401.70		20.10			
PD-100	1000000	2000000	60.00	400.00		11.00			
PD-100	1000000	200047	60.00	400.00		11.00			
PD-110	1000004	2000000	60.00	400.00		11.00			
PD-120	1000000	2000010	67.00	400.71		1.00			
PD-13			60.00			10.00			
PD-14			60.00			10.00			
PD-17			60.00			10.00			
PD-18			61.71			11.00			
PD-19			60.00			1.00			

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

See Board

WELL ID	BIA Well ID	Northing	Easting	Total Depth	Top of casing elevation	Elev.	Depth to water		Type	Remarks
							FEET	FEET/CM		
BROWNS-01	P2-01	1107140	2544001	44.00	481.00	100714		12.00		
BROWNS-02	P2-02	1107150	2544007	54.00	481.10	100715		12.00		
BROWNS-03	P2-03	1170170	2544110	40.00	481.00	100716		11.80		
BROWNS-04	P2-04	1170184	2544008	41.00	481.70	100716		11.70		
BROWNS-05	P2-05	1170750	2541581	48.70	480.00	100716		20.50		
BROWNS-100	P2-100	1104007	2547100	50.00	481.00	10010		20.00		
BROWNS-101	P2-101	1104011	2547100	77.00	481.00	10010		49.00		
BROWNS-102	P2-102	1104013	2547098	40.00	480.24	10010		17.00		
BROWNS-200	P2-200	1100084	2541110	26.00	507.37	10010	01.27	3.00	1386	
BROWNS-201	P2-201	1100085	2541110	24.00	500.00	10010	8.78	1.00	1340	
BROWNS-202	P2-202	1100088	2541090	26.00	503.23	10010	10.17	10.00	1341	
BROWNS-300	P2-300	1101008	2547000	20.00	502.01	10010	4.63	4.00	1433	
BROWNS-302	P2-302	1100070	2544000	40.00	478.00	10010	30.20	17.00	1416	
BROWNS-303	P2-303	1100007	2544000	30.40	470.00	10		11.00		
BROWNS-340	P2-340	1107180	2544001	21.00	501.00	10		3.00		
BROWNS-360	P2-360	1100000	2544170	27.00	500.01	10		1.00		
BROWNS-170	P2-170	1100002	2544000	7.00	500.00	10		0.00		annular pipe
BROWNS-180	P2-180	1100741	2544000	20.70	500.04	10		0.00		annular pipe
BROWNS-370	P2-370	1100004	2544000	30.00	497.00	10		10.00		
BROWNS-380	P2-380	1100000	2544010	30.00	492.01	10		10.00		
BROWNS-40	P2-40	1100000	2541070	27.00	504.00	10010	10.86	11.00	1527	
BROWNS-47	P2-47	1101701	2544001	30.00	491.00	10010	26.51	10.00	1442	
BROWNS-50	P2-50	1101001	2542170	30.00	501.00	10010	30.01	10.00	1345	
BROWNS-60	P2-60	1101070	2542100	73.00	503.07	10010	39.31	10.00	1301	
P2-000		1101000	2542001	100.00	500.00	10010	35.09	10.00	1246	annular pipe, annular
P2-010		1101010	2542100	40.00	500.07	10010	38.39	10.00	1230	annular pipe, annular
P2-020		1101020	2542100	24.00	500.00	10010	38.21	10.00	1230	annular pipe, annular
P2-030		1101030	2542100	100.00	500.70	10010	37.37	10.00	1283	annular pipe, annular
P2-040		1101040	2542100	70.00	500.00	10010	35.09	10.00	1280	annular pipe, annular
P2-050		1101070	2542000	50.00	507.07	10010	36.10	10.00	1268	annular pipe, annular
P2-060		1101000	2542000	50.00	505.40	10010	38.45	10.00	1235	annular
P2-070		1101000	2542001	50.00	500.01	10010	37.90	10.00	1279	annular pipe, annular
P2-080		1101000	2542000	70.00	500.00	10010	47.70	10.00	1229	annular pipe, annular
P2-090				70.00			39.02		1252	
P2-100				50.00			39.10		1258	

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

JB

Well ID	Old Well ID	Welling	casing	Total Depth	Top of casing Elevation	Case	Depth to Water	Time	Comments
		(m)	(m)	(METERS)	(MMSL)	(m)	(METERS)		
P2-10	NA	1171000	2011000	88.00	466.07		37.00		
P2-11	NA	1171000	2011070	70.00	464.71		34.30		
P2-12	NA	1171000	2011000	100.00	463.41		37.70		
P2-13	NA	1180000	200270	30.00	460.15		7.00		
P2-14	NA	1180000	200270	34.00	460.40		30.70		
P2-15	NA	1180070	200270	100.00	461.30		40.00		
P2-16	NA	1180000	2011070	30.00	460.67		7.00		
P2-17	NA	1181007	2011000	40.00	463.00		34.40		
P2-18	NA	1180070	2000000	30.00	461.07		33.30		
P2-19	NA	1181007	2011100	10.00	463.00		34.00		
P2-20	NA	1182000	2000000	40.00	460.00		37.40		
P2-100	NA	1180000	2000001	30.00	463.00		30.00		
P2-110	NA	1181007	2007000	30.00	463.00		16.40		
P2-120	NA	1180070	2007100	101.70	460.00		35.00		
P2-130	NA	1180071	2000777	30.70	460.07		37.70		
P2-140	NA	1180000	2000000	27.00	463.11		33.00		
P2-141	NA	1180000	2000000	31.00	462.71		19.70		
P2-150	NA	1181700	2001000	30.00	460.00		10.00		
P2-161	NA	1181701	2000000	30.70	463.00		19.70		
P2-180	NA	1180070	2000001	70.10	460.00		10.00		
P2-191	NA	1180001	2000000	30.00	460.00		11.00		
P2-171	NA	1180070	2004700	40.00	460.40		3.00		
P2-180	NA	1180707	2007007	24.00	460.00		20.01	11.00	1983
P2-191	NA	1180700	2007700	30.00	460.00		30.71	10.00	1975
P2-190	NA	1180000	2000000	30.00	471.40		16.34	10.00	1909
P2-191	NA	1180707	2000000	40.70	471.70		17.15	11.00	1905
P2-200	NA	1180000	2000107	10.00	460.41		15.00	10.00	1381
P2-201	NA	1180000	2000100	10.00	460.34		15.41	10.00	1383
P2-210	NA	1180000	2001001	0.00	460.00		10.37	10.00	1842
P2-211	NA	1180000	2001100	24.00	460.00		16.71	11.00	1334
P2-240	BRIDGE 140	1181001	2000000	40.00	464.10		14.01	10.00	1167
P2-241	NA	1180000	2001000	30.00	470.00		20.40	10.00	1310
P2-242	NA	1180000	2001100	24.00	464.01		14.00	10.00	1257
P2-243	NA	1180007	2007070	30.00	470.77		17.73	10.00	1408
P2-244	NA	1180070	2007070	30.00	467.70		30.00		
P2-245	P2-220	1180070	2007001	40.70	474.70		30.00		

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

DP

Well ID	Site Number	Welling	casing	casing	Total Depth (m)	Top of casing Elevation (m)	Point	Depth to Water (m)	Total	Comments
		(m)	(m)	(m)	(m)	(m)		(m)		
PD-408	NA	1102418	2002008	40.00	200.00			16.00		
PD-410	NA	1102420	2002108	44.00	207.11			17.00		
PD-409	NA	1102409	2002108	52.00	201.00			20.71		
PD-41	NA	1102100	2002071	40.00	200.71			20.12		
PD-41	NA	1101720	2001800	27.00	200.00			23.00		primary
PD-40	NA	1102700	2002000	45.00	204.00			9.00		
PD-38	NA	1102007	2002000	57.00	200.00			20.01		
PD-39	NA	1102071	2001100	17.00	200.00			16.00		
PD-400		1100000	2000000	50.00	217.00	(B)	11.94	13.00	18:28	1000.0
PD-400		1100000	2000000	100.00	200.00	(B)		22.00		
PD-36		1100000	2000000	50.00	200.00	(B)		47.00		
PD-35		1100000	2000000	40.00	200.00	(B)		40.00		
PD-34		1100000	2000000	20.00	210.00	(B)		1.00		
WD-0-1				20.00				14.10		
WD-0-1				42.40				20.71		primary
WD-0-1				10.00				10.00		
WD-0-1				53.00				9.00		
WD-0-2				10.10				8.50		primary
WD-0-2				20.00				10.21		
WD-0-2				53.00				10.44		
PD-10		1104011	2000100	50.00	200.10			17.00		
PD-01		1104004	2000014	57.00	200.71			20.00		
PD-40		1104100	2000000	40.00	211.10			20.00		
PD-40		1104140	2000000	114.00	210.10			20.11		
PD-70		1100001	2000100	23.00	200.00			22.00		primary
PD-60		1100010	2000100	20.00	201.00			10.00		
PD-60		1100000	2000107	100.00	201.70			20.10		
PD-100		1100000	2000001	20.00	200.00			10.70		
PD-100		1100000	2000007	20.00	200.00			10.00		
PD-100		1100000	2000000	20.00	200.00			8.47		
PD-100		1100000	2000010	27.00	200.77			8.10		
PD-10				20.00				10.70		
PD-10				20.01				20.14		
PD-17				40.00				20.00		
PD-10				21.77				47.00		
PD-10				40.00				8.10		

TABLE 1
 PLANT BRANCH GROUNDWATER SAMPLING
 WATER LEVEL MONITORING ON 01/31/2022

DF

Well ID	UIC Well ID	Northing (m)	Easting (m)	Total Depth (m)	Top of Casing Elevation (MMSL)	Pond Elevation	Depth to Water (MMSL)	Time	Comments
P2-16	05	1171000	2001000	80.00	488.07		38.07 11.40	12:53	2000
P2-17	05	1171000	2001070	70.00	488.71		39.03 11.40	12:52	2000
P2-18	05	1171000	2001000	100.00	488.11		38.12 11.70	12:51	2000
P2-20	05	1100000	2000075	80.00	488.00		Dry	14:10	2000
P2-21	05	1100000	2000075	50.00	488.10		51.29 11.70	14:10	2000
P2-22	05	1100075	2000075	100.00	487.50		48.35 11.00	14:11	2000
P2-23	05	1100000	2001070	80.00	488.07		Dry	14:01	2000
P2-24	05	1100017	2001000	40.00	488.00		51.60 11.70	14:00	2000
P2-74	05	1100070	2000000	44.00	481.97		26.63 11.00	12:41	2000
P2-80	05	1107001	2001100	40.00	483.00		24.74 11.70	14:37	2000
P2-86	05	1100000	2000000	40.00	488.00				
P2-100	05	1100000	2000001	80.00	484.00				
P2-110	05	1100007	2007000	24.00	485.00				
P2-120	05	1100010	2007100	141.70	484.00				
P2-130	05	1100011	2000277	24.70	488.07		26.82 11.70	14:10	2000
P2-140	05	1100000	2000000	27.00	483.21		28.90 11.00	12:40	2000
P2-150	05	1100000	2000000	80.00	483.71		19.84 11.70	12:53	2000
P2-160	05	1107700	2000000	80.00	483.00		0.50 11.00	16:03	2000
P2-180	05	1107701	2000000	80.70	483.00		9.66 11.00	16:05	2000
P2-190	05	1100070	2000001	15.10	482.50		11.35 11.00	15:20	Handwritten note: 2000
P2-190	05	1100001	2000000	40.00	483.00		11.17 11.00	12:04	2000
P2-191	05	1100010	2000700	40.00	483.00		3.71 1.00	11:50	2000
P2-195	05	1100707	2007707	24.00	482.00				
P2-196	05	1100700	2007700	80.40	482.00				
P2-199	05	1100000	2000000	80.00	471.40				
P2-199	05	1100707	2000000	40.00	471.70				
P2-200	05	1100000	2000007	70.00	480.41				
P2-201	05	1100000	2000100	20.00	480.34				
P2-210	05	1100000	2001001	80.00	480.00				
P2-211	05	1100000	2001000	24.40	480.00				
P2-240	05/060-050	1100001	2000000	40.00	484.00				
P2-250	05	1100000	2000000	80.00	470.00				
P2-260	05	1100000	2000100	20.00	480.07				
P2-110	05	1100007	2007070	80.00	470.77				
P2-270	05	1100070	2000070	80.00	427.70				
P2-280	P2-210	1100070	2007001	40.70	424.70				

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

Daniel Furtak

Well ID	Old Well ID	Monitoring Point	Reading	Total Depth	Top of casing Elevation	Point	Depth to Water	Time	Comments
		(Elev)	(Elev)	(Feet BGL)	(Elev)	(Elev)	(Feet BGL)		
BROWA-01	P2-01	1107100	200000	81.00	443.20	180714	11:03	11:23	None
BROWA-02	P2-02	1107100	200000	81.00	443.14	180714	10.97	11:23	None
BROWA-03	P2-03	1170170	200010	80.00	443.00	180714	11:00	11:38	None
BROWA-04	P2-04	1170180	200000	81.00	443.70	180714	11:02	11:39	None
BROWA-05	P2-05	1170701	2001001	80.70	438.00	180714	24.63	12:45	None
BROWA-100	P2-100	1104007	2001100	80.00	434.04	18011			
BROWA-101	P2-101	1104001	2001100	77.00	434.00	18011			
BROWA-102	P2-102	1104071	2001000	80.00	435.00	18011			
BROWA-201	P2-201	1100004	2001100	70.00	437.07	18011			
BROWA-271	P2-271	1100005	2000710	74.00	436.00	18011			
BROWA-291	P2-291	1100008	2001000	80.00	433.00	18011			
BROWA-301	P2-301	1101000	2000000	70.00	432.01	18011			
BROWA-302	P2-302	1100070	2000000	81.00	430.00	18011			
BROWA-303	P2-303	1100071	2000000	70.00	430.00	18011	9.02	12:02	None
BROWA-340	P2-340	1107100	2000001	81.00	431.00	18011	2.53	12:17	None
BROWA-350	P2-350	1100000	2000170	77.00	430.01	18011	1.75	12:00	None
BROWA-170	P2-170	1100000	2000000	7.10	430.00	18011	3.94	11:49	None
BROWA-060	P2-060	1100100	2000000	70.70	430.04	18011	0.00	11:49	None
BROWA-175	P2-175	1100000	2000000	81.00	437.00	18011	52.09	11:41	None
BROWA-065	P2-065	1101000	2000071	70.00	432.00	18011			
BROWA-061	P2-061	1100000	2001070	77.00	434.00	18011			
BROWA-47	P2-47	1100101	2000001	81.00	411.00	18011			
BROWA-080	P2-080	1101000	2000170	80.00	431.00	18011			
BROWA-081	P2-081	1101170	2000100	71.00	430.07	18011			
P2-040		1101000	2000101	100.00	430.00	18011			Estimated PWS readings
P2-010		1101010	2000100	80.00	430.07	18011			Estimated PWS readings
P2-011		1101001	2000100	80.00	430.00	18011			Estimated PWS readings
P2-010		1101000	2000104	100.00	430.70	18011			Estimated PWS readings
P2-011		1101000	2000170	75.00	430.00	18011			Estimated PWS readings
P2-040		1101070	2000100	81.00	430.07	18011			Estimated PWS readings
P2-060		1101000	2000100	80.00	430.00	18011			None
P2-060		1101000	2000101	80.00	430.01	18011			Estimated PWS readings
P2-011		1101000	2000100	70.00	430.04	18011			Estimated PWS readings
P2-040				70.00					
P2-060				80.00					

TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022

Well ID	Site Well ID	Monitoring Point	Reading	Total Depth	Total casing elevation	Point	Depth to Water	Time	Comments
		(ft)	(ft)	(ft) (Elev)	(ft) (Elev)	1 of 1	(ft) (Elev)		
PG-008	NA	1102410	200200	40.00	400.00		JB 13.00		
PG-410	NA	1102400	2001700	44.00	401.17		11.00		
PG-400	NA	1102400	2001700	43.00	401.00		10.00		
PG-01	NA	1102100	2000501	40.00	400.71		10.00		
PG-01	NA	1101720	2001000	47.00	400.24		10.00		
PG-01	NA	1102100	2000500	45.00	400.24		10.00		
PG-00	NA	1102007	2000400	47.00	400.00		31.60 15:20		
PG-00	NA	1102021	2001100	17.00	400.00		JB 10.00		
PG-000		1100000	2000000	50.00	417.00	1	DF 10.00		
PG-000		1100000	2000000	100.00	400.00	1	20.90 13:07		
PG-01		1100000	2000000	50.00	400.00	1	46.62 12:50	10.00	10.00
PG-01		1100000	2000000	40.00	400.00	1	46.00 14:07		49.50' on pulled pump
PG-01		1100000	2000000	20.00	410.00	1	7.80 14:14		
PG-0-1				20.00			JB 10.00		
PG-0-1				40.00			10.00		
PG-0-1				10.00			10.00		
PG-0-1				20.00			8.82 13:44		
PG-0-2				10.00			JB 10.00		
PG-0-2				20.00			10.00		
PG-0-2				30.00			10.00		
PG-10		1100011	2000000	40.00	400.10		16.20 12:10		labeled casing
PG-01		1100004	2000014	47.00	400.71		37.77 12:07		labeled casing
PG-00		1100010	2000000	40.00	411.10		24.10 14:21		labeled casing
PG-01		1100000	2000001	110.00	410.10		29.80 14:29		labeled casing
PG-10		1100001	2000100	30.00	400.00		21.50 14:38		
PG-00		1100010	2000100	30.00	401.00		11.65 15:02		labeled casing + pull flag
PG-01		1100004	2000101	100.00	401.70		19.90 15:02		labeled casing + pull flag
PG-100		1100000	2000001	30.00	400.01		48.60 15:35		13.85' on
PG-100		1100000	2000007	40.00	400.01		13.40 15:20		
PG-100		1100000	2000000	50.00	370.01		8.09 14:49		
PG-100		1100000	2000000	47.00	370.71		8.81 14:50		
PG-10				30.00			10.00		ABANDONED
PG-10				40.00			10.00		NOT USED FOR AT MP
PG-11				40.00			10.00		NOT USED FOR AT MP
PG-10				41.71			10.00		NOT USED FOR AT MP
PG-10				40.00			10.00		NOT USED FOR AT MP

TABLE 1
 PLANT BRANCH GROUNDWATER SAMPLING
 WATER LEVEL MONITORING ON 01/31/2022

Jw

Well ID	Q#	Northing	Easting	Total Depth	Top of Casing Elevation	Point	Depth to Water		Time	Comments
							EL (M)	DEPTH (M)		
P2-19	GA	1171000	2051500	80.00	400.07		DF	17.40		
P2-2	GA	1171000	2051575	70.00	400.71			18.30		
P2-30	GA	1171000	2051500	100.00	400.41			17.30		
P2-35	GA	1100400	2050075	50.00	400.50			18.00		
P2-6	GA	1100400	2050075	54.00	400.40			18.30		
P2-30	GA	1100474	2050075	100.00	407.50			18.00		
P2-40	GA	1100400	2051070	50.00	400.07			18.00		
P2-4	GA	1100401	2051000	60.00	400.00			18.30		
P2-70	GA	1100470	2050000	60.00	401.07			18.30		
P2-80	GA	1107001	2051100	60.00	400.00			18.40		
P2-80	GA	1100401	2050000	60.00	400.00			37.70 17.40	14:20	
P2-100	GA	1100402	2050001	50.00	400.00			26.10 18.30	11:30	
P2-110	GA	1100407	2057000	24.00	399.00			18.90 18.30	14:43	
P2-100	GA	1100412	2057100	141.70	399.00			79.55 18.30	12:00	
P2-100	GA	1100011	2050077	50.70	400.07			no DF	17.30	
P2-100	GA	1100000	2050000	27.00	400.07			DF	18.30	
P2-10	GA	1100000	2050000	50.00	400.71			DF	18.30	
P2-100	GA	1107700	2050000	50.00	400.00			18.30		
P2-10	GA	1107701	2050000	50.70	400.00			18.30		
P2-100	GA	1100070	2050001	10.70	400.00			DF	18.30	
P2-10	GA	1100001	2050000	20.00	399.40			11.00		
P2-10	GA	1100014	2050700	40.00	399.10			1.00		
P2-100	GA	1100707	2057747	24.00	399.00			DF	21.00	
P2-10	GA	1100700	2057740	50.40	399.00			18.30		
P2-100	GA	1100000	2050000	50.00	371.00			18.30		
P2-10	GA	1100707	2050000	40.70	371.74			17.30		
P2-200	GA	1100000	2000107	10.00	399.41			18.00		
P2-20	GA	1100000	2000100	20.00	399.10			18.00		
P2-210	GA	1100000	2001001	0.00	399.50			18.70		
P2-21	GA	1100000	2001000	20.00	399.50			11.00		
P2-200	BRIDGE 200	1100001	2000000	50.00	399.10			14.40		
P2-20	GA	1100000	2001000	50.70	370.00			22.30		
P2-20	GA	1100000	2000100	24.00	399.01			18.30		
P2-210	GA	1100007	2007070	20.00	370.77			18.30		
P2-20	GA	1100070	2007070	60.00	407.74			37.96 18.30	16:15	
P2-40	P2-100	1100070	2007401	44.70	404.70			48.85 18.30	18:59	

**TABLE 1
PLANT BRANCH GROUNDWATER SAMPLING
WATER LEVEL MONITORING ON 01/31/2022**

J. Wagner

Well ID	UIC Well ID	Existing (EAS)	Existing (EAS)	Total Depth (METERS)	Top of Casing Elevation (MMSL)	Flow (L/s)	Depth to Water (METERS)	Time	Comments
BROWA-01	P2-01	1107100	2100001	44.00	443.20	1007100	DF	11:41	
BROWA-02	P2-02	1107100	2100002	54.00	443.14	1007100	|	11:41	
BROWA-03	P2-03	1107170	2000010	40.00	443.00	1007100	|	11:41	
BROWA-04	P2-04	1107104	2000008	61.00	443.70	1007100	|	11:41	
BROWA-05	P2-05	1107100	2007001	40.70	438.00	1007100	|	11:41	
BROWA-100	P2-100	1100001	2007100	50.00	434.00	1000000	49.88	11:54	
BROWA-101	P2-101	1100001	2007100	77.00	434.00	1000000	49.73	11:57	
BROWA-200	P2-200	1100070	2007000	40.00	440.04	1000000	38.34	15:10	
BROWA-201	P2-201	1100004	2003001	20.00	437.07	1000000	JB	9:44	
BROWA-202	P2-202	1100000	2000702	24.00	438.00	1000000	|	7:50	
BROWA-203	P2-203	1100000	2001000	20.00	439.00	1000000	|	10:10	
BROWA-204	P2-204	1101000	2007000	20.00	439.01	1000000	|	9:50	
BROWA-300	P2-300	1100070	2000000	30.00	438.00	1000000	|	17:40	
BROWA-301	P2-301	1100001	2003000	20.40	410.00	0	DF	11:50	
BROWA-302	P2-302	1107104	2004001	33.00	441.00	0	|	7:00	
BROWA-303	P2-303	1100000	2004400	17.40	440.01	0	|	7:00	
BROWA-170	P2-170	1100000	2000000	7.00	435.00	0	|	9:50	contaminated
BROWA-100	P2-100	1100700	2000000	20.70	439.00	0	|	7:10	contaminated
BROWA-200	P2-200	1100000	2003000	30.00	447.00	0	|	10:00	
BROWA-300	P2-300	1100000	2000011	30.00	430.00	0	20.85	13:01	
BROWA-40	P2-40	1100200	2001000	37.00	430.00	1000000	JB	11:51	
BROWA-47	P2-47	1100700	2000400	30.00	411.00	1000000	|	13:10	
BROWA-50	P2-50	1101000	2000270	30.00	441.00	1000000	|	13:01	
BROWA-501	P2-501	1101070	2002100	70.00	440.07	1000000	|	13:01	
P2-001		1101000	2000001	100.00	430.00	1000000	|	10:00	contaminated Well - complete
P2-010		1101010	2000400	40.40	440.07	1000000	|	10:00	contaminated Well - complete
P2-011		1101001	2000000	30.00	440.00	1000000	|	10:00	contaminated Well - complete
P2-012		1101000	2000000	100.00	440.70	1000000	|	17:40	contaminated Well - complete
P2-071		1101000	2000170	70.00	440.00	1000000	|	10:10	contaminated Well - complete
P2-080		1101070	2000200	33.00	440.07	1000000	|	17:00	contaminated Well - complete
P2-080		1101000	2000000	40.00	440.00	1000000	|	10:00	contaminated
P2-080		1101000	2000001	30.00	440.01	1000000	|	17:10	contaminated Well - complete
P2-071		1101000	2000000	70.00	440.00	1000000	|	17:10	contaminated Well - complete
P2-00				70.00					
P2-00				30.00			|		

APPENDIX A

Purge Logs

Low-Flow Test Report:

Test Date / Time: 9/21/2021 10:18:44 AM

Project: Plant Branch

Operator Name: Erin D Hondt

Location Name: BRGWA-12S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.01 ft Total Depth: 61.01 ft Initial Depth to Water: 50.4 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 56.01 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/21/2021 10:18 AM	00:00	5.68 pH	21.02 °C	65.47 µS/cm	6.33 mg/L	1.62 NTU	98.1 mV	50.40 ft	280.00 ml/min
9/21/2021 10:23 AM	05:00	5.80 pH	20.84 °C	72.06 µS/cm	6.50 mg/L	6.54 NTU	95.9 mV	51.02 ft	280.00 ml/min
9/21/2021 10:28 AM	10:00	5.84 pH	20.96 °C	74.32 µS/cm	6.54 mg/L	4.32 NTU	94.6 mV	51.02 ft	280.00 ml/min
9/21/2021 10:33 AM	15:00	5.87 pH	21.11 °C	75.99 µS/cm	6.60 mg/L	1.34 NTU	90.7 mV	51.02 ft	280.00 ml/min
9/21/2021 10:38 AM	20:00	5.87 pH	21.22 °C	75.88 µS/cm	6.60 mg/L	0.15 NTU	92.1 mV	51.02 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2021 10:58:33 AM

Project: Plant Branch (2)

Operator Name: Erin D Hondt

Location Name: BRGWA-12I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.54 ft Total Depth: 80.54 ft Initial Depth to Water: 50.13 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 75.54 ft Estimated Total Volume Pumped: 28526 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 13.82 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Turbidity meter issues prevented data collection from 12:00 - 1:00. Replaced meter to resume readings.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/21/2021 10:58 AM	00:00	6.17 pH	21.55 °C	158.37 µS/cm	0.86 mg/L	8.55 NTU	91.2 mV	50.13 ft	280.00 ml/min
9/21/2021 11:00 AM	02:07	6.19 pH	21.51 °C	150.07 µS/cm	0.57 mg/L	8.14 NTU	91.2 mV	52.79 ft	280.00 ml/min
9/21/2021 11:05 AM	07:07	6.18 pH	21.21 °C	143.12 µS/cm	0.53 mg/L	7.49 NTU	90.8 mV	55.15 ft	280.00 ml/min
9/21/2021 11:10 AM	12:07	6.18 pH	22.06 °C	140.70 µS/cm	1.93 mg/L	7.22 NTU	89.0 mV	56.00 ft	280.00 ml/min
9/21/2021 11:15 AM	17:07	6.21 pH	21.69 °C	140.42 µS/cm	1.84 mg/L	8.71 NTU	88.6 mV	57.50 ft	280.00 ml/min
9/21/2021 11:20 AM	22:07	6.21 pH	21.95 °C	137.05 µS/cm	1.71 mg/L	8.44 NTU	88.0 mV	58.58 ft	280.00 ml/min
9/21/2021 11:25 AM	27:07	6.21 pH	21.82 °C	132.21 µS/cm	2.48 mg/L	8.91 NTU	86.4 mV	59.70 ft	280.00 ml/min
9/21/2021 11:30 AM	32:07	6.21 pH	23.00 °C	132.60 µS/cm	2.57 mg/L	8.44 NTU	84.0 mV	59.85 ft	200.00 ml/min
9/21/2021 11:35 AM	37:07	6.21 pH	22.44 °C	130.03 µS/cm	2.84 mg/L	6.34 NTU	84.3 mV	60.04 ft	200.00 ml/min
9/21/2021 11:40 AM	42:07	6.22 pH	22.72 °C	127.12 µS/cm	3.44 mg/L	5.90 NTU	83.2 mV	60.40 ft	200.00 ml/min
9/21/2021 11:45 AM	47:07	6.23 pH	23.91 °C	125.70 µS/cm	3.98 mg/L	6.58 NTU	81.6 mV	60.70 ft	200.00 ml/min
9/21/2021 11:50 AM	52:07	6.26 pH	24.25 °C	128.86 µS/cm	4.16 mg/L	6.75 NTU	80.2 mV	60.92 ft	200.00 ml/min
9/21/2021 11:55 AM	57:07	6.30 pH	24.24 °C	130.80 µS/cm	4.11 mg/L	7.51 NTU	80.4 mV	60.95 ft	200.00 ml/min
9/21/2021 12:00 PM	01:02:07	6.36 pH	22.89 °C	136.80 µS/cm	4.39 mg/L	6.88 NTU	81.0 mV	61.03 ft	200.00 ml/min
9/21/2021 12:05 PM	01:07:07	6.41 pH	22.82 °C	141.59 µS/cm	4.61 mg/L	6.38 NTU	81.0 mV	61.20 ft	200.00 ml/min

9/21/2021 12:10 PM	01:12:07	6.44 pH	23.61 °C	144.60 µS/cm	4.76 mg/L	6.89 NTU	79.4 mV	61.20 ft	100.00 ml/min
9/21/2021 12:15 PM	01:17:07	6.45 pH	24.11 °C	144.04 µS/cm	4.72 mg/L	7.46 NTU	79.5 mV	61.20 ft	100.00 ml/min
9/21/2021 12:20 PM	01:22:07	6.45 pH	25.38 °C	144.45 µS/cm	4.64 mg/L		77.8 mV	61.20 ft	100.00 ml/min
9/21/2021 12:25 PM	01:27:07	6.45 pH	26.29 °C	142.89 µS/cm	4.51 mg/L		77.5 mV	61.20 ft	100.00 ml/min
9/21/2021 12:30 PM	01:32:07	6.47 pH	24.84 °C	142.98 µS/cm	4.55 mg/L		78.9 mV	61.20 ft	100.00 ml/min
9/21/2021 12:35 PM	01:37:07	6.49 pH	23.84 °C	145.87 µS/cm	4.78 mg/L		79.9 mV	61.20 ft	100.00 ml/min
9/21/2021 12:40 PM	01:42:07	6.52 pH	22.96 °C	146.28 µS/cm	5.02 mg/L		80.9 mV	61.20 ft	100.00 ml/min
9/21/2021 12:45 PM	01:46:54	6.53 pH	21.82 °C	146.27 µS/cm	5.20 mg/L		81.4 mV	61.20 ft	100.00 ml/min
9/21/2021 12:50 PM	01:51:54	6.53 pH	22.05 °C	148.05 µS/cm	5.38 mg/L		82.2 mV	61.20 ft	100.00 ml/min
9/21/2021 12:55 PM	01:56:54	6.52 pH	22.73 °C	144.67 µS/cm	5.26 mg/L		82.5 mV	61.20 ft	100.00 ml/min
9/21/2021 1:00 PM	02:01:54	6.50 pH	23.52 °C	143.83 µS/cm	4.94 mg/L		83.4 mV	61.20 ft	100.00 ml/min
9/21/2021 1:02 PM	02:04:18	6.50 pH	22.20 °C	139.88 µS/cm	4.65 mg/L	0.81 NTU	84.5 mV	61.65 ft	100.00 ml/min
9/21/2021 1:05 PM	02:06:33	6.51 pH	22.70 °C	141.52 µS/cm	4.87 mg/L	0.07 NTU	83.2 mV	61.65 ft	100.00 ml/min
9/21/2021 1:10 PM	02:11:33	6.52 pH	22.28 °C	142.90 µS/cm	4.74 mg/L	0.97 NTU	83.9 mV	61.65 ft	100.00 ml/min
9/21/2021 1:30 PM	02:31:27	6.51 pH	22.46 °C	146.45 µS/cm	4.86 mg/L	3.63 NTU	84.2 mV	63.25 ft	240.00 ml/min
9/21/2021 1:35 PM	02:36:27	6.51 pH	22.10 °C	148.36 µS/cm	4.72 mg/L	2.75 NTU	84.5 mV	63.70 ft	240.00 ml/min
9/21/2021 1:40 PM	02:41:27	6.54 pH	22.58 °C	149.57 µS/cm	4.93 mg/L	2.66 NTU	83.8 mV	63.89 ft	240.00 ml/min
9/21/2021 1:45 PM	02:46:27	6.53 pH	22.77 °C	151.59 µS/cm	4.79 mg/L	3.52 NTU	84.2 mV	63.95 ft	240.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2021 12:14:37 PM

Project: Plant Branch

Operator Name: E. Rheams

Location Name: BRGWA-5I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.20 ft Total Depth: 61.20 ft Initial Depth to Water: 11.86 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake from TOC: 56 ft Estimated Total Volume Pumped: 4200 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/21/2021 12:14 PM	00:00	6.13 pH	22.28 °C	185.52 µS/cm	3.86 mg/L	2.19 NTU	100.6 mV	11.86 ft	280.00 ml/min
9/21/2021 12:19 PM	05:00	6.27 pH	19.65 °C	186.42 µS/cm	4.81 mg/L	2.84 NTU	107.7 mV	12.09 ft	280.00 ml/min
9/21/2021 12:24 PM	10:00	6.31 pH	19.32 °C	186.67 µS/cm	4.94 mg/L	3.46 NTU	82.1 mV	12.11 ft	280.00 ml/min
9/21/2021 12:29 PM	15:00	6.32 pH	19.23 °C	186.32 µS/cm	5.01 mg/L	4.36 NTU	100.5 mV	12.11 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2021 1:07:37 PM

Project: Plant Branch

Operator Name: E. Rheams

<p>Location Name: BRGWA-5S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.0 ft Total Depth: 40.0 ft Initial Depth to Water: 11.95 ft</p>	<p>Pump Type: Dedicte Tubing Type: Polyethylene Pump Intake from TOC: 35 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.15 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 850767</p>
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/21/2021 1:07 PM	00:00	6.17 pH	21.56 °C	174.24 µS/cm	2.56 mg/L	11.43 NTU	89.4 mV	11.95 ft	100.00 ml/min
9/21/2021 1:12 PM	05:00	6.30 pH	19.59 °C	188.63 µS/cm	1.79 mg/L	9.42 NTU	76.6 mV	12.10 ft	100.00 ml/min
9/21/2021 1:17 PM	10:00	6.35 pH	19.33 °C	195.86 µS/cm	1.62 mg/L	10.60 NTU	87.2 mV	12.10 ft	100.00 ml/min
9/21/2021 1:22 PM	15:00	6.36 pH	19.96 °C	197.66 µS/cm	1.59 mg/L	10.09 NTU	68.7 mV	12.10 ft	100.00 ml/min
9/21/2021 1:27 PM	20:00	6.37 pH	20.08 °C	200.31 µS/cm	1.57 mg/L	11.00 NTU	65.8 mV	12.10 ft	100.00 ml/min
9/21/2021 1:32 PM	25:00	6.37 pH	20.47 °C	198.97 µS/cm	1.57 mg/L	11.50 NTU	64.2 mV	12.10 ft	100.00 ml/min
9/21/2021 1:37 PM	30:00	6.36 pH	22.36 °C	204.08 µS/cm	1.63 mg/L	11.67 NTU	74.4 mV	12.10 ft	100.00 ml/min
9/21/2021 1:42 PM	35:00	6.36 pH	23.88 °C	200.67 µS/cm	1.68 mg/L	12.70 NTU	64.3 mV	12.10 ft	100.00 ml/min
9/21/2021 1:47 PM	40:00	6.36 pH	21.95 °C	195.97 µS/cm	1.72 mg/L	11.90 NTU	64.6 mV	12.10 ft	100.00 ml/min
9/21/2021 1:50 PM	43:09	6.36 pH	21.55 °C	195.35 µS/cm	1.67 mg/L	12.00 NTU	65.2 mV	12.10 ft	100.00 ml/min
9/21/2021 1:55 PM	48:09	6.37 pH	21.28 °C	198.27 µS/cm	1.66 mg/L	12.50 NTU	75.0 mV	12.10 ft	100.00 ml/min
9/21/2021 2:00 PM	53:09	6.37 pH	20.87 °C	197.97 µS/cm	1.68 mg/L	11.80 NTU	63.1 mV	12.10 ft	100.00 ml/min
9/21/2021 2:05 PM	58:09	6.36 pH	21.46 °C	196.16 µS/cm	1.69 mg/L	11.87 NTU	74.0 mV	12.10 ft	100.00 ml/min
9/21/2021 2:10 PM	01:03:09	6.37 pH	21.48 °C	197.22 µS/cm	1.73 mg/L	11.00 NTU	74.9 mV	12.10 ft	100.00 ml/min
9/21/2021 2:15 PM	01:08:09	6.36 pH	21.20 °C	195.81 µS/cm	1.74 mg/L	11.69 NTU	75.7 mV	12.10 ft	100.00 ml/min
9/21/2021 2:20 PM	01:13:09	6.36 pH	20.76 °C	195.20 µS/cm	1.75 mg/L	11.97 NTU	63.4 mV	12.10 ft	100.00 ml/min

9/21/2021 2:25 PM	01:18:09	6.36 pH	20.44 °C	195.60 µS/cm	1.74 mg/L	11.23 NTU	74.6 mV	12.10 ft	100.00 ml/min
9/21/2021 2:30 PM	01:23:09	6.36 pH	20.57 °C	195.44 µS/cm	1.74 mg/L	12.42 NTU	75.0 mV	12.10 ft	100.00 ml/min
9/21/2021 2:35 PM	01:28:09	6.36 pH	20.48 °C	193.84 µS/cm	1.76 mg/L	11.04 NTU	62.9 mV	12.10 ft	100.00 ml/min
9/21/2021 2:40 PM	01:33:09	6.36 pH	20.57 °C	194.27 µS/cm	1.77 mg/L	11.17 NTU	62.0 mV	12.10 ft	100.00 ml/min
9/21/2021 2:45 PM	01:38:09	6.35 pH	20.61 °C	194.42 µS/cm	1.79 mg/L	11.75 NTU	73.1 mV	12.10 ft	100.00 ml/min
9/21/2021 2:50 PM	01:43:09	6.36 pH	20.66 °C	193.98 µS/cm	1.82 mg/L	12.32 NTU	74.4 mV	12.10 ft	100.00 ml/min
9/21/2021 2:55 PM	01:48:09	6.36 pH	20.35 °C	193.44 µS/cm	1.80 mg/L	11.98 NTU	75.0 mV	12.10 ft	100.00 ml/min
9/21/2021 3:00 PM	01:53:09	6.35 pH	20.17 °C	193.58 µS/cm	1.81 mg/L	12.09 NTU	75.3 mV	12.10 ft	100.00 ml/min
9/21/2021 3:05 PM	01:58:09	6.35 pH	20.17 °C	192.92 µS/cm	1.81 mg/L	10.53 NTU	63.0 mV	12.10 ft	100.00 ml/min
9/21/2021 3:10 PM	02:03:09	6.35 pH	20.29 °C	192.62 µS/cm	1.82 mg/L	11.01 NTU	62.1 mV	12.10 ft	100.00 ml/min
9/21/2021 3:15 PM	02:08:09	6.35 pH	20.26 °C	191.80 µS/cm	1.82 mg/L	10.01 NTU	73.3 mV	12.10 ft	100.00 ml/min
9/21/2021 3:20 PM	02:13:09	6.36 pH	20.79 °C	193.12 µS/cm	2.28 mg/L	10.93 NTU	75.0 mV	12.10 ft	100.00 ml/min
9/21/2021 3:25 PM	02:18:09	6.36 pH	20.84 °C	191.53 µS/cm	2.14 mg/L	11.12 NTU	75.8 mV	12.10 ft	100.00 ml/min
9/21/2021 3:30 PM	02:23:09	6.35 pH	20.76 °C	191.81 µS/cm	2.03 mg/L	10.42 NTU	76.6 mV	12.10 ft	100.00 ml/min
9/21/2021 3:35 PM	02:28:09	6.36 pH	20.76 °C	190.81 µS/cm	1.97 mg/L	10.56 NTU	76.9 mV	12.10 ft	100.00 ml/min
9/21/2021 3:40 PM	02:33:09	6.36 pH	20.58 °C	190.07 µS/cm	1.97 mg/L	11.77 NTU	77.0 mV	12.10 ft	100.00 ml/min
9/21/2021 3:45 PM	02:38:09	6.36 pH	20.67 °C	190.01 µS/cm	1.96 mg/L	11.04 NTU	76.9 mV	12.10 ft	100.00 ml/min
9/21/2021 3:50 PM	02:43:09	6.35 pH	20.53 °C	194.96 µS/cm	1.98 mg/L	10.49 NTU	76.2 mV	12.10 ft	100.00 ml/min
9/21/2021 3:55 PM	02:48:09	6.36 pH	20.56 °C	190.31 µS/cm	1.94 mg/L	11.02 NTU	63.6 mV	12.10 ft	100.00 ml/min
9/21/2021 4:00 PM	02:53:09	6.36 pH	20.53 °C	190.54 µS/cm	1.95 mg/L	9.87 NTU	75.1 mV	12.10 ft	100.00 ml/min
9/21/2021 4:05 PM	02:58:09	6.36 pH	20.35 °C	190.04 µS/cm	1.94 mg/L	9.65 NTU	75.7 mV	12.10 ft	100.00 ml/min
9/21/2021 4:10 PM	03:03:09	6.36 pH	20.22 °C	190.37 µS/cm	1.91 mg/L	8.43 NTU	76.1 mV	12.10 ft	100.00 ml/min
9/21/2021 4:15 PM	03:08:09	6.36 pH	19.95 °C	193.24 µS/cm	1.99 mg/L	8.28 NTU	75.9 mV	12.10 ft	100.00 ml/min
9/21/2021 4:20 PM	03:13:09	6.36 pH	19.63 °C	190.18 µS/cm	1.94 mg/L	6.78 NTU	63.2 mV	12.10 ft	100.00 ml/min
9/21/2021 4:25 PM	03:18:09	6.36 pH	19.18 °C	189.75 µS/cm	1.95 mg/L	2.29 NTU	74.4 mV	12.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2021 9:31:18 AM

Project: Plant Branch

Operator Name: E. Rheams

Location Name: BRGWA-2I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 54.30 ft Total Depth: 64.30 ft Initial Depth to Water: 11.02 ft	Pump Type: Dedicte Tubing Type: Polyethylene Pump Intake from TOC: 59 ft Estimated Total Volume Pumped: 7200 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.53 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 9:31 AM	00:00	6.92 pH	22.47 °C	182.45 µS/cm	3.58 mg/L	5.66 NTU	137.4 mV	11.02 ft	240.00 ml/min
9/22/2021 9:36 AM	05:00	6.82 pH	19.46 °C	173.63 µS/cm	3.08 mg/L	13.60 NTU	105.4 mV	12.84 ft	240.00 ml/min
9/22/2021 9:41 AM	10:00	6.82 pH	19.28 °C	175.49 µS/cm	3.20 mg/L	7.08 NTU	119.9 mV	13.48 ft	120.00 ml/min
9/22/2021 9:46 AM	15:00	6.80 pH	20.30 °C	175.32 µS/cm	2.56 mg/L	5.61 NTU	105.8 mV	13.09 ft	120.00 ml/min
9/22/2021 9:51 AM	20:00	6.78 pH	20.40 °C	173.51 µS/cm	1.95 mg/L	3.15 NTU	95.6 mV	12.85 ft	120.00 ml/min
9/22/2021 9:56 AM	25:00	6.78 pH	20.48 °C	176.63 µS/cm	1.52 mg/L	3.29 NTU	77.2 mV	12.70 ft	120.00 ml/min
9/22/2021 10:01 AM	30:00	6.79 pH	20.40 °C	182.04 µS/cm	1.09 mg/L	2.92 NTU	61.5 mV	12.65 ft	120.00 ml/min
9/22/2021 10:06 AM	35:00	6.81 pH	20.53 °C	189.30 µS/cm	0.77 mg/L	2.98 NTU	45.8 mV	12.60 ft	120.00 ml/min
9/22/2021 10:11 AM	40:00	6.82 pH	20.57 °C	189.51 µS/cm	0.61 mg/L	2.95 NTU	42.3 mV	12.55 ft	120.00 ml/min
9/22/2021 10:16 AM	45:00	6.80 pH	20.57 °C	187.15 µS/cm	0.55 mg/L	2.39 NTU	37.8 mV	12.55 ft	120.00 ml/min
9/22/2021 10:21 AM	50:00	6.78 pH	20.71 °C	183.23 µS/cm	0.57 mg/L	2.94 NTU	37.1 mV	12.55 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2021 9:54:20 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-36S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.02 ft Total Depth: 34.02 ft Initial Depth to Water: 2.9 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 9:54 AM	00:00	5.54 pH	22.31 °C	557.28 µS/cm	1.95 mg/L		120.6 mV	2.90 ft	250.00 ml/min
9/22/2021 9:59 AM	05:00	5.52 pH	20.74 °C	571.01 µS/cm	1.83 mg/L	3.66 NTU	132.2 mV	3.70 ft	250.00 ml/min
9/22/2021 10:04 AM	10:00	5.53 pH	20.67 °C	568.75 µS/cm	1.78 mg/L	3.29 NTU	122.2 mV	3.65 ft	250.00 ml/min
9/22/2021 10:09 AM	15:00	5.53 pH	20.56 °C	570.33 µS/cm	1.77 mg/L	2.55 NTU	135.8 mV	3.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-36S	

Low-Flow Test Report:

Test Date / Time: 9/22/2021 10:07:04 AM

Project: Plant Branch (4)

Operator Name: Erin D Hondt

Location Name: BRGWA-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.8 ft Initial Depth to Water: 37.1 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 33.8 ft Estimated Total Volume Pumped: 12.4 L Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 10:07 AM	00:00	5.72 pH	22.18 °C	147.92 µS/cm	4.82 mg/L	3.80 NTU	97.3 mV	38.29 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2021 10:54:04 AM

Project: Plant Branch (25)

Operator Name: E. Rheams

Location Name: BRGWA-2S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.60 ft Total Depth: 44.60 ft Initial Depth to Water: 11.01 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake from TOC: 39 ft Estimated Total Volume Pumped: 6600 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 10:54 AM	00:00	6.00 pH	20.52 °C	71.17 µS/cm	3.43 mg/L	0.89 NTU	54.8 mV	11.01 ft	220.00 ml/min
9/22/2021 10:59 AM	05:00	6.09 pH	20.04 °C	69.90 µS/cm	1.86 mg/L	1.17 NTU	50.7 mV	11.04 ft	220.00 ml/min
9/22/2021 11:04 AM	10:00	6.09 pH	19.90 °C	69.75 µS/cm	1.37 mg/L	0.91 NTU	49.4 mV	11.08 ft	220.00 ml/min
9/22/2021 11:09 AM	15:00	6.09 pH	20.03 °C	69.25 µS/cm	1.11 mg/L	0.73 NTU	49.0 mV	11.10 ft	220.00 ml/min
9/22/2021 11:14 AM	20:00	6.08 pH	19.80 °C	69.20 µS/cm	1.00 mg/L	0.67 NTU	48.9 mV	11.10 ft	220.00 ml/min
9/22/2021 11:19 AM	25:00	6.07 pH	19.90 °C	69.11 µS/cm	0.88 mg/L	0.70 NTU	49.9 mV	11.10 ft	220.00 ml/min
9/22/2021 11:24 AM	30:00	6.06 pH	19.95 °C	69.21 µS/cm	0.87 mg/L	0.71 NTU	49.7 mV	11.10 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2021 11:32:05 AM

Project: Plant Branch (5)

Operator Name: Erin D Hondt

Location Name: BRGWA-6S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.9 ft Total Depth: 52.9 ft Initial Depth to Water: 26.2 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 47.9 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 11:32 AM	00:00	6.25 pH	20.93 °C	56.02 µS/cm	6.41 mg/L	8.84 NTU	84.7 mV	26.20 ft	200.00 ml/min
9/22/2021 11:37 AM	05:00	6.42 pH	20.57 °C	55.95 µS/cm	6.38 mg/L	4.38 NTU	86.5 mV	26.98 ft	200.00 ml/min
9/22/2021 11:42 AM	10:00	6.47 pH	20.67 °C	56.06 µS/cm	6.40 mg/L	1.42 NTU	84.7 mV	27.05 ft	200.00 ml/min
9/22/2021 11:47 AM	15:00	6.48 pH	21.11 °C	56.07 µS/cm	6.39 mg/L	0.99 NTU	84.8 mV	27.05 ft	200.00 ml/min
9/22/2021 11:49 AM	17:00	6.48 pH	21.33 °C	55.25 µS/cm	6.42 mg/L	0.99 NTU	84.6 mV	27.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2021 11:39:26 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-17S Well Diameter: 2 in Casing Type: PVC Screen Length: 5.0 ft Top of Screen: 1.15 ft Total Depth: 6.15 ft Initial Depth to Water: 5.21 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 6 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 11:39 AM	00:00	6.28 pH	24.71 °C	440.96 µS/cm	3.24 mg/L	6.87 NTU	93.6 mV	5.21 ft	250.00 ml/min
9/22/2021 11:44 AM	05:00	6.24 pH	22.10 °C	438.94 µS/cm	1.27 mg/L	4.29 NTU	90.0 mV	5.50 ft	250.00 ml/min
9/22/2021 11:49 AM	10:00	6.21 pH	22.11 °C	418.48 µS/cm	1.36 mg/L	8.85 NTU	94.7 mV	5.50 ft	250.00 ml/min
9/22/2021 11:54 AM	15:00	6.21 pH	22.12 °C	411.76 µS/cm	1.41 mg/L	9.90 NTU	94.8 mV	5.50 ft	250.00 ml/min
9/22/2021 11:59 AM	20:00	6.22 pH	22.13 °C	406.53 µS/cm	1.42 mg/L	11.04 NTU	95.4 mV	5.50 ft	250.00 ml/min
9/22/2021 12:04 PM	25:00	6.22 pH	22.22 °C	405.41 µS/cm	1.41 mg/L	7.50 NTU	101.4 mV	5.50 ft	250.00 ml/min
9/22/2021 12:09 PM	30:00	6.22 pH	22.31 °C	407.12 µS/cm	1.47 mg/L	4.57 NTU	98.5 mV	5.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-17S	EB-1

Low-Flow Test Report:

Test Date / Time: 9/22/2021 2:37:46 PM

Project: Plant Branch (6)

Operator Name: Erin D Hondt

Location Name: BRGWC-33S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.66 ft Total Depth: 31.66 ft Initial Depth to Water: 11.75 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 26.66 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 2:37 PM	00:00	4.74 pH	24.54 °C	265.94 µS/cm	0.67 mg/L	2.85 NTU	117.0 mV	11.75 ft	120.00 ml/min
9/22/2021 2:42 PM	05:00	4.79 pH	23.72 °C	257.28 µS/cm	0.59 mg/L	3.14 NTU	117.6 mV	11.75 ft	120.00 ml/min
9/22/2021 2:47 PM	10:00	4.80 pH	22.40 °C	256.33 µS/cm	0.55 mg/L	3.45 NTU	119.1 mV	11.80 ft	280.00 ml/min
9/22/2021 2:52 PM	15:00	4.81 pH	21.20 °C	258.73 µS/cm	0.23 mg/L	4.65 NTU	120.5 mV	11.80 ft	280.00 ml/min
9/22/2021 2:57 PM	20:00	4.81 pH	20.86 °C	259.38 µS/cm	0.19 mg/L	3.76 NTU	121.2 mV	11.80 ft	280.00 ml/min
9/22/2021 3:02 PM	25:00	4.81 pH	20.75 °C	257.69 µS/cm	0.17 mg/L	3.55 NTU	120.7 mV	11.80 ft	280.00 ml/min

Samples

Sample ID:	Description:
BRGWC-33S	FB-1

Low-Flow Test Report:

Test Date / Time: 9/22/2021 4:01:41 PM

Project: Plant Branch (7)

Operator Name: Erin D Hondt

Location Name: BRGWC-34S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.64 ft Total Depth: 52.64 ft Initial Depth to Water: 2.97 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 47.64 ft Estimated Total Volume Pumped: 20192.666 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/22/2021 4:01 PM	00:00	5.88 pH	22.31 °C	664.16 µS/cm	2.16 mg/L	2.00 NTU	108.6 mV	2.97 ft	280.00 ml/min
9/22/2021 4:02 PM	01:04	5.88 pH	22.36 °C	596.08 µS/cm	2.07 mg/L	2.00 NTU	108.5 mV	2.97 ft	280.00 ml/min
9/22/2021 4:07 PM	06:04	5.93 pH	22.18 °C	627.56 µS/cm	2.33 mg/L	2.68 NTU	107.8 mV	3.01 ft	280.00 ml/min
9/22/2021 4:12 PM	11:04	5.91 pH	22.14 °C	610.31 µS/cm	1.82 mg/L	2.38 NTU	108.0 mV	3.01 ft	280.00 ml/min
9/22/2021 4:17 PM	16:04	5.92 pH	22.29 °C	604.87 µS/cm	2.06 mg/L	2.01 NTU	107.3 mV	3.01 ft	280.00 ml/min
9/22/2021 4:21 PM	20:11	5.92 pH	22.30 °C	688.47 µS/cm	1.91 mg/L	1.93 NTU	107.1 mV	3.01 ft	280.00 ml/min
9/22/2021 4:23 PM	22:07	5.92 pH	22.27 °C	658.11 µS/cm	1.94 mg/L	1.91 NTU	107.2 mV	3.01 ft	280.00 ml/min
9/22/2021 4:28 PM	27:07	5.92 pH	22.21 °C	609.32 µS/cm	1.93 mg/L	1.88 NTU	107.0 mV	3.01 ft	280.00 ml/min
9/22/2021 4:33 PM	32:07	5.93 pH	22.19 °C	589.21 µS/cm	2.11 mg/L	1.83 NTU	107.2 mV	3.01 ft	280.00 ml/min
9/22/2021 4:38 PM	37:07	5.92 pH	22.03 °C	545.51 µS/cm	2.09 mg/L	1.81 NTU	107.3 mV	3.01 ft	280.00 ml/min
9/22/2021 4:43 PM	42:07	5.92 pH	21.85 °C	579.00 µS/cm	2.27 mg/L	1.78 NTU	108.6 mV	3.01 ft	280.00 ml/min
9/22/2021 4:48 PM	47:07	5.93 pH	21.91 °C	542.90 µS/cm	2.17 mg/L	1.72 NTU	108.7 mV	3.01 ft	280.00 ml/min
9/22/2021 4:53 PM	52:07	5.93 pH	21.93 °C	583.49 µS/cm	2.18 mg/L	1.69 NTU	109.3 mV	3.01 ft	280.00 ml/min
9/22/2021 4:58 PM	57:07	5.92 pH	21.86 °C	477.50 µS/cm	2.08 mg/L	1.78 NTU	110.5 mV	3.01 ft	280.00 ml/min
9/22/2021 5:03 PM	01:02:07	5.93 pH	21.87 °C	587.51 µS/cm	2.26 mg/L	1.88 NTU	111.2 mV	3.01 ft	280.00 ml/min

9/22/2021 5:08 PM	01:07:07	5.93 pH	21.76 °C	584.53 µS/cm	2.14 mg/L	1.90 NTU	112.1 mV	3.01 ft	280.00 ml/min
9/22/2021 5:13 PM	01:12:07	5.93 pH	21.82 °C	603.28 µS/cm	2.15 mg/L	1.48 NTU	113.0 mV	3.01 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2021 9:42:31 AM

Project: Plant Branch (8)

Operator Name: Erin D Hondt

Location Name: BRGWC-35S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.34 ft Total Depth: 35.34 ft Initial Depth to Water: 1.59 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 30.34 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/23/2021 9:42 AM	00:00	6.08 pH	18.84 °C	653.15 µS/cm	0.29 mg/L	4.98 NTU	78.5 mV	1.59 ft	360.00 ml/min
9/23/2021 9:47 AM	05:00	6.06 pH	18.93 °C	635.31 µS/cm	0.13 mg/L	2.55 NTU	71.5 mV	1.68 ft	360.00 ml/min
9/23/2021 9:52 AM	10:00	6.07 pH	18.95 °C	633.41 µS/cm	0.11 mg/L	2.85 NTU	71.3 mV	1.68 ft	360.00 ml/min
9/23/2021 9:57 AM	15:00	6.08 pH	18.96 °C	638.51 µS/cm	0.11 mg/L	1.80 NTU	68.9 mV	1.68 ft	360.00 ml/min

Samples

Sample ID:	Description:
BRGWC-35S	DUP-1

Low-Flow Test Report:

Test Date / Time: 9/23/2021 10:42:43 AM

Project: Plant Branch (9)

Operator Name: Erin D Hondt

Location Name: BRGWC-38S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.66 ft Total Depth: 43.66 ft Initial Depth to Water: 22.2 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 38.66 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/23/2021 10:42 AM	00:00	4.04 pH	19.51 °C	756.91 µS/cm	2.18 mg/L	2.88 NTU	79.9 mV	22.20 ft	160.00 ml/min
9/23/2021 10:47 AM	05:00	4.03 pH	19.64 °C	754.14 µS/cm	1.67 mg/L	3.83 NTU	80.5 mV	22.80 ft	160.00 ml/min
9/23/2021 10:52 AM	10:00	4.03 pH	19.80 °C	732.39 µS/cm	1.50 mg/L	3.24 NTU	82.0 mV	23.05 ft	160.00 ml/min
9/23/2021 10:57 AM	15:00	4.04 pH	19.95 °C	720.31 µS/cm	1.34 mg/L	3.67 NTU	83.0 mV	23.05 ft	160.00 ml/min
9/23/2021 11:02 AM	20:00	4.04 pH	20.06 °C	712.36 µS/cm	1.32 mg/L	2.67 NTU	84.2 mV	23.05 ft	160.00 ml/min
9/23/2021 11:07 AM	25:00	4.04 pH	20.16 °C	712.25 µS/cm	1.31 mg/L	1.24 NTU	85.4 mV	23.05 ft	160.00 ml/min
9/23/2021 11:12 AM	30:00	4.05 pH	20.22 °C	720.11 µS/cm	1.30 mg/L	0.58 NTU	87.0 mV	23.05 ft	160.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2021 11:54:45 AM

Project: Plant Branch

Operator Name: E. Rheams

Location Name: BRGWC-45 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.45 ft Total Depth: 60.45 ft Initial Depth to Water: 10.99 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake From TOC: 52.21 ft Estimated Total Volume Pumped: 4400 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/23/2021 11:54 AM	00:00	6.32 pH	23.11 °C	434.15 µS/cm	4.49 mg/L	1.93 NTU	68.5 mV	10.99 ft	220.00 ml/min
9/23/2021 11:59 AM	05:00	6.01 pH	22.30 °C	474.89 µS/cm	0.90 mg/L	10.48 NTU	58.0 mV	11.38 ft	220.00 ml/min
9/23/2021 12:04 PM	10:00	6.00 pH	22.44 °C	467.11 µS/cm	0.70 mg/L	2.50 NTU	55.4 mV	11.40 ft	220.00 ml/min
9/23/2021 12:09 PM	15:00	5.98 pH	22.47 °C	457.15 µS/cm	0.52 mg/L	2.58 NTU	47.3 mV	11.36 ft	220.00 ml/min
9/23/2021 12:14 PM	20:00	5.95 pH	22.31 °C	448.79 µS/cm	0.41 mg/L	2.40 NTU	44.5 mV	11.36 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2021 12:08:54 PM

Project: Plant Branch (10)

Operator Name: Erin D Hondt

Location Name: BRGWC-37S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.73 ft Total Depth: 68.73 ft Initial Depth to Water: 51.14 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 63.73 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/23/2021 12:08 PM	00:00	5.79 pH	22.40 °C	47.96 µS/cm	7.11 mg/L	2.79 NTU	92.6 mV	51.14 ft	120.00 ml/min
9/23/2021 12:13 PM	05:00	5.81 pH	21.74 °C	49.37 µS/cm	7.29 mg/L	0.17 NTU	88.5 mV	51.68 ft	120.00 ml/min
9/23/2021 12:18 PM	10:00	5.84 pH	21.77 °C	49.26 µS/cm	7.32 mg/L	0.77 NTU	91.7 mV	51.68 ft	120.00 ml/min
9/23/2021 12:23 PM	15:00	5.84 pH	21.82 °C	49.57 µS/cm	7.36 mg/L	0.07 NTU	93.8 mV	51.68 ft	120.00 ml/min
9/23/2021 12:28 PM	20:00	5.84 pH	22.28 °C	49.22 µS/cm	7.37 mg/L	0.06 NTU	94.9 mV	51.68 ft	120.00 ml/min
9/23/2021 12:33 PM	25:00	5.85 pH	22.43 °C	49.37 µS/cm	7.38 mg/L	0.01 NTU	95.9 mV	51.68 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2021 1:08:09 PM

Project: Plant McDonough (29)

Operator Name: E. Rheams

Location Name: BRGWC-47 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 82.00 ft Total Depth: 92.00 ft Initial Depth to Water: 25.84 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake From TOC: 87.55 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/23/2021 1:08 PM	00:00	6.67 pH	22.80 °C	1,700.0 µS/cm	4.42 mg/L	6.13 NTU	-35.1 mV	25.84 ft	240.00 ml/min
9/23/2021 1:13 PM	05:00	5.87 pH	20.84 °C	2,358.7 µS/cm	1.29 mg/L	11.30 NTU	-30.3 mV	26.90 ft	240.00 ml/min
9/23/2021 1:18 PM	10:00	5.78 pH	21.37 °C	2,389.5 µS/cm	0.98 mg/L	7.47 NTU	-37.9 mV	26.60 ft	140.00 ml/min
9/23/2021 1:23 PM	15:00	5.75 pH	21.64 °C	2,379.3 µS/cm	0.83 mg/L	4.21 NTU	-20.6 mV	26.45 ft	140.00 ml/min
9/23/2021 1:28 PM	20:00	5.74 pH	21.93 °C	2,380.8 µS/cm	0.76 mg/L	3.22 NTU	-6.2 mV	26.45 ft	140.00 ml/min
9/23/2021 1:33 PM	25:00	5.74 pH	21.77 °C	2,383.8 µS/cm	0.68 mg/L	2.36 NTU	-25.2 mV	26.45 ft	140.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/27/2021 12:32:38 PM

Project: Plant Branch (12)

Operator Name: D. Herrera

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: 37.89 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/27/2021 12:32 PM	00:00	5.19 pH	22.94 °C	1,830.3 µS/cm	1.35 mg/L	2.40 NTU	81.5 mV	37.89 ft	250.00 ml/min
9/27/2021 12:37 PM	05:00	5.24 pH	22.27 °C	1,830.3 µS/cm	1.52 mg/L	3.04 NTU	76.9 mV	38.05 ft	250.00 ml/min
9/27/2021 12:42 PM	10:00	5.09 pH	22.08 °C	1,838.8 µS/cm	0.63 mg/L	3.80 NTU	73.6 mV	38.05 ft	250.00 ml/min
9/27/2021 12:47 PM	15:00	5.07 pH	22.09 °C	1,835.2 µS/cm	0.39 mg/L	3.72 NTU	71.0 mV	38.05 ft	250.00 ml/min
9/27/2021 12:52 PM	20:00	5.06 pH	22.22 °C	1,845.9 µS/cm	0.35 mg/L	3.84 NTU	69.0 mV	38.05 ft	250.00 ml/min
9/27/2021 12:57 PM	25:00	5.05 pH	22.09 °C	1,854.1 µS/cm	0.34 mg/L	4.55 NTU	67.3 mV	38.05 ft	250.00 ml/min
9/27/2021 1:02 PM	30:00	5.05 pH	22.35 °C	1,850.6 µS/cm	0.35 mg/L	4.40 NTU	65.9 mV	38.05 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-50	DUP-2

Low-Flow Test Report:

Test Date / Time: 9/27/2021 2:36:00 PM

Project: Plant Branch (15)

Operator Name: D. Herrera

Location Name: PZ-51S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.4 ft Total Depth: 45.4 ft Initial Depth to Water: 38.17 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/27/2021 2:36 PM	00:00	6.06 pH	21.14 °C	137.89 µS/cm	0.88 mg/L	5.90 NTU	51.7 mV	38.17 ft	250.00 ml/min
9/27/2021 2:41 PM	05:00	6.05 pH	21.43 °C	138.90 µS/cm	0.63 mg/L	5.82 NTU	51.4 mV	40.65 ft	250.00 ml/min
9/27/2021 2:46 PM	10:00	6.04 pH	21.29 °C	140.15 µS/cm	0.59 mg/L	6.18 NTU	52.4 mV	40.97 ft	250.00 ml/min
9/27/2021 2:51 PM	15:00	6.05 pH	21.24 °C	140.22 µS/cm	0.50 mg/L	6.01 NTU	52.7 mV	41.15 ft	250.00 ml/min
9/27/2021 2:56 PM	20:00	6.05 pH	21.33 °C	140.45 µS/cm	0.61 mg/L	5.83 NTU	52.6 mV	41.25 ft	250.00 ml/min
9/27/2021 3:01 PM	25:00	6.04 pH	21.31 °C	139.58 µS/cm	0.44 mg/L	6.20 NTU	53.5 mV	41.35 ft	250.00 ml/min
9/27/2021 3:06 PM	30:00	6.04 pH	21.39 °C	135.89 µS/cm	0.38 mg/L	6.77 NTU	53.5 mV	41.45 ft	250.00 ml/min
9/27/2021 3:11 PM	35:00	6.04 pH	21.38 °C	139.42 µS/cm	0.35 mg/L	6.97 NTU	54.0 mV	41.45 ft	250.00 ml/min
9/27/2021 3:16 PM	40:00	6.04 pH	21.46 °C	139.48 µS/cm	0.31 mg/L	5.43 NTU	54.1 mV	41.55 ft	250.00 ml/min
9/27/2021 3:21 PM	45:00	6.03 pH	21.58 °C	138.88 µS/cm	0.29 mg/L	4.20 NTU	54.5 mV	41.58 ft	250.00 ml/min
9/27/2021 3:26 PM	50:00	6.04 pH	21.58 °C	139.43 µS/cm	0.29 mg/L	3.12 NTU	54.3 mV	41.60 ft	250.00 ml/min
9/27/2021 3:31 PM	55:00	6.03 pH	21.56 °C	138.39 µS/cm	0.40 mg/L	1.56 NTU	54.7 mV	41.65 ft	250.00 ml/min
9/27/2021 3:36 PM	01:00:00	6.04 pH	21.58 °C	137.25 µS/cm	0.44 mg/L	0.70 NTU	55.0 mV	41.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-51S	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/27/2021 4:16:25 PM

Project: Plant Branch (16)

Operator Name: D. Herrera

Location Name: PZ-611 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.03 ft Total Depth: 76.03 ft Initial Depth to Water: 47.8 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 6250 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/27/2021 4:16 PM	00:00	5.01 pH	21.69 °C	2,177.0 µS/cm	0.47 mg/L	13.40 NTU	56.7 mV	47.80 ft	250.00 ml/min
9/27/2021 4:21 PM	05:00	5.00 pH	21.33 °C	2,183.8 µS/cm	0.31 mg/L	3.46 NTU	54.6 mV	48.10 ft	250.00 ml/min
9/27/2021 4:26 PM	10:00	5.01 pH	21.29 °C	2,164.6 µS/cm	0.27 mg/L	4.03 NTU	52.5 mV	48.20 ft	250.00 ml/min
9/27/2021 4:31 PM	15:00	5.03 pH	21.43 °C	2,151.2 µS/cm	0.26 mg/L	2.73 NTU	50.4 mV	48.25 ft	250.00 ml/min
9/27/2021 4:36 PM	20:00	5.01 pH	21.38 °C	2,184.2 µS/cm	0.23 mg/L	3.80 NTU	48.2 mV	48.20 ft	250.00 ml/min
9/27/2021 4:41 PM	25:00	5.02 pH	21.31 °C	2,165.8 µS/cm	0.21 mg/L	3.98 NTU	47.4 mV	48.20 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-611	

Low-Flow Test Report:

Test Date / Time: 9/27/2021 5:13:20 PM

Project: Plant Branch (17)

Operator Name: J.Waguespack

Location Name: PZ-511 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58 ft Total Depth: 68 ft Initial Depth to Water: 38 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 5500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/27/2021 5:13 PM	00:00	5.68 pH	29.39 °C	1,381.1 µS/cm	5.64 mg/L	6.89 NTU	60.0 mV	38.00 ft	250.00 ml/min
9/27/2021 5:18 PM	05:00	5.62 pH	21.99 °C	1,489.3 µS/cm	4.86 mg/L	6.41 NTU	71.6 mV	38.80 ft	250.00 ml/min
9/27/2021 5:23 PM	10:00	5.40 pH	21.20 °C	1,529.2 µS/cm	1.81 mg/L	5.96 NTU	75.8 mV	39.05 ft	300.00 ml/min
9/27/2021 5:28 PM	15:00	5.36 pH	21.11 °C	1,520.6 µS/cm	0.87 mg/L	6.54 NTU	75.9 mV	39.05 ft	300.00 ml/min
9/27/2021 5:33 PM	20:00	5.34 pH	21.14 °C	1,540.3 µS/cm	0.48 mg/L	4.37 NTU	76.2 mV	39.15 ft	300.00 ml/min

Samples

Sample ID:	Description:
PZ-511	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 9:13:11 AM

Project: Plant Branch (18)

Operator Name: D. Herrera

<p>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: 39.9 ft</p>	<p>Pump Type: Dedicated Tubing Type: Poly Pump Intake From TOC: 101 ft Estimated Total Volume Pumped: 28750 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: -34.4 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 850751</p>
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 9:13 AM	00:00	7.27 pH	20.23 °C	1,006.6 µS/cm	8.27 mg/L	4.11 NTU	120.8 mV	39.90 ft	250.00 ml/min
9/28/2021 9:18 AM	05:00	6.94 pH	20.31 °C	1,025.9 µS/cm	1.95 mg/L	5.12 NTU	79.8 mV	41.75 ft	250.00 ml/min
9/28/2021 9:23 AM	10:00	7.01 pH	20.22 °C	1,027.3 µS/cm	0.95 mg/L	3.39 NTU	59.1 mV	42.89 ft	250.00 ml/min
9/28/2021 9:28 AM	15:00	7.06 pH	20.31 °C	1,026.6 µS/cm	1.19 mg/L	3.21 NTU	40.7 mV	42.89 ft	250.00 ml/min
9/28/2021 9:33 AM	20:00	7.10 pH	20.35 °C	1,026.0 µS/cm	1.75 mg/L	2.77 NTU	17.8 mV	45.50 ft	250.00 ml/min
9/28/2021 9:38 AM	25:00	7.14 pH	20.44 °C	1,026.6 µS/cm	2.40 mg/L	2.78 NTU	-0.2 mV	46.41 ft	250.00 ml/min
9/28/2021 9:43 AM	30:00	7.17 pH	20.61 °C	1,027.3 µS/cm	2.88 mg/L	2.80 NTU	-14.8 mV	46.70 ft	250.00 ml/min
9/28/2021 9:48 AM	35:00	7.18 pH	20.89 °C	1,020.9 µS/cm	2.89 mg/L	2.90 NTU	-32.4 mV	47.05 ft	250.00 ml/min
9/28/2021 9:53 AM	40:00	7.18 pH	21.22 °C	1,015.3 µS/cm	3.38 mg/L	2.96 NTU	-42.0 mV	47.70 ft	250.00 ml/min
9/28/2021 9:58 AM	45:00	7.18 pH	21.42 °C	1,006.6 µS/cm	3.64 mg/L	3.15 NTU	-46.7 mV	48.55 ft	250.00 ml/min
9/28/2021 10:03 AM	50:00	7.18 pH	21.65 °C	1,004.8 µS/cm	4.01 mg/L	3.09 NTU	-48.4 mV	49.30 ft	250.00 ml/min
9/28/2021 10:08 AM	55:00	7.18 pH	21.90 °C	1,000.9 µS/cm	4.12 mg/L	4.82 NTU	-49.4 mV	49.50 ft	250.00 ml/min
9/28/2021 10:13 AM	01:00:00	7.19 pH	22.00 °C	997.07 µS/cm	4.48 mg/L	4.10 NTU	-50.5 mV	49.91 ft	250.00 ml/min
9/28/2021 10:18 AM	01:05:00	7.18 pH	22.14 °C	993.87 µS/cm	4.50 mg/L	4.53 NTU	-48.1 mV	50.06 ft	250.00 ml/min
9/28/2021 10:23 AM	01:10:00	7.18 pH	22.36 °C	988.99 µS/cm	4.81 mg/L	4.47 NTU	-50.7 mV	51.70 ft	250.00 ml/min

9/28/2021 10:28 AM	01:15:00	7.18 pH	22.45 °C	986.62 µS/cm	4.91 mg/L	4.56 NTU	-50.4 mV	52.21 ft	250.00 ml/min
9/28/2021 10:33 AM	01:20:00	7.18 pH	22.54 °C	984.17 µS/cm	5.26 mg/L	4.32 NTU	-50.5 mV	52.98 ft	250.00 ml/min
9/28/2021 10:38 AM	01:25:00	7.18 pH	22.67 °C	984.73 µS/cm	5.30 mg/L	3.98 NTU	-50.9 mV	53.30 ft	250.00 ml/min
9/28/2021 10:43 AM	01:30:00	7.18 pH	22.88 °C	983.81 µS/cm	5.96 mg/L	3.79 NTU	-50.4 mV	53.65 ft	250.00 ml/min
9/28/2021 10:48 AM	01:35:00	7.18 pH	23.01 °C	984.00 µS/cm	6.08 mg/L	4.75 NTU	-49.9 mV	54.38 ft	250.00 ml/min
9/28/2021 10:53 AM	01:40:00	7.17 pH	23.23 °C	980.95 µS/cm	6.62 mg/L	4.68 NTU	-48.8 mV	54.73 ft	250.00 ml/min
9/28/2021 10:58 AM	01:45:00	7.17 pH	23.47 °C	971.90 µS/cm	6.71 mg/L	2.99 NTU	-48.8 mV	55.21 ft	250.00 ml/min
9/28/2021 11:03 AM	01:50:00	7.18 pH	23.30 °C	983.99 µS/cm	6.37 mg/L	3.31 NTU	-49.7 mV	55.42 ft	250.00 ml/min
9/28/2021 11:08 AM	01:55:00	7.18 pH	23.35 °C	983.63 µS/cm	5.88 mg/L	2.97 NTU	-50.3 mV	55.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
PZ-51D	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 9:22:24 AM

Project: Plant Branch (2)

Operator Name: Jude Waguespack

Location Name: PZ-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 96 ft Total Depth: 106 ft Initial Depth to Water: 65.3 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 101 ft Estimated Total Volume Pumped: 300 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Well evacuated 09.27.21 -
44.25 L removed

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 9:22 AM	00:00	6.65 pH	20.75 °C	1,864.5 µS/cm	9.18 mg/L	9.35 NTU	90.6 mV	65.30 ft	150.00 ml/min
9/28/2021 9:23 AM	01:00	6.49 pH	20.66 °C	1,927.4 µS/cm	7.41 mg/L	8.10 NTU	84.7 mV	66.20 ft	150.00 ml/min
9/28/2021 9:24 AM	02:00	6.23 pH	20.58 °C	1,870.3 µS/cm	4.36 mg/L	4.82 NTU	81.4 mV	66.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
PZ-50D	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 10:51:43 AM

Project: Plant Branch

Operator Name: Brian Steele

Location Name: BRGWC-25I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.41 ft Total Depth: 24.41 ft Initial Depth to Water: 9.55 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake From TOC: 20.41 ft Estimated Total Volume Pumped: 9352 ml Flow Cell Volume: 90 ml Final Flow Rate: 320 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 10:51 AM	00:00	7.42 pH	24.33 °C	1.49 µS/cm	8.40 mg/L	20.10 NTU	189.9 mV	9.55 ft	240.00 ml/min
9/28/2021 10:52 AM	00:44	7.41 pH	24.31 °C	1.47 µS/cm	8.40 mg/L	17.60 NTU	204.7 mV	9.55 ft	240.00 ml/min
9/28/2021 10:57 AM	05:38	5.92 pH	19.94 °C	363.92 µS/cm	1.03 mg/L	14.40 NTU	54.7 mV	9.70 ft	320.00 ml/min
9/28/2021 11:02 AM	10:38	5.95 pH	19.81 °C	365.67 µS/cm	0.29 mg/L	5.73 NTU	93.5 mV	9.70 ft	320.00 ml/min
9/28/2021 11:07 AM	15:38	5.95 pH	19.81 °C	370.37 µS/cm	0.27 mg/L	2.27 NTU	104.8 mV	9.70 ft	320.00 ml/min
9/28/2021 11:12 AM	20:38	5.95 pH	19.80 °C	370.12 µS/cm	0.22 mg/L	1.37 NTU	110.7 mV	9.70 ft	320.00 ml/min
9/28/2021 11:17 AM	25:38	5.96 pH	19.80 °C	372.78 µS/cm	0.28 mg/L	1.23 NTU	114.9 mV	9.70 ft	320.00 ml/min
9/28/2021 11:22 AM	30:38	5.97 pH	19.81 °C	372.46 µS/cm	0.29 mg/L	0.85 NTU	131.1 mV	9.70 ft	320.00 ml/min

Samples

Sample ID:	Description:
BRWGC-25I	App 3 App 4
BRGWC-25I	Radium

Low-Flow Test Report:

Test Date / Time: 9/28/2021 11:41:53 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PZ-60I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.83 ft Total Depth: 60.83 ft Initial Depth to Water: 37.6 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 11:41 AM	00:00	5.86 pH	26.60 °C	2,854.7 µS/cm	5.89 mg/L	6.99 NTU	127.3 mV	37.60 ft	250.00 ml/min
9/28/2021 11:46 AM	05:00	5.58 pH	22.35 °C	2,948.8 µS/cm	0.78 mg/L	6.54 NTU	113.2 mV	37.70 ft	250.00 ml/min
9/28/2021 11:51 AM	10:00	4.84 pH	21.86 °C	3,064.1 µS/cm	0.34 mg/L	3.80 NTU	189.1 mV	37.75 ft	250.00 ml/min
9/28/2021 11:56 AM	15:00	4.79 pH	21.78 °C	3,072.9 µS/cm	0.26 mg/L	3.22 NTU	233.3 mV	37.75 ft	250.00 ml/min
9/28/2021 12:01 PM	20:00	4.77 pH	21.82 °C	3,072.5 µS/cm	0.22 mg/L	3.30 NTU	360.0 mV	37.75 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-60I	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 12:06:15 PM

Project: Plant Branch (2)

Operator Name: Brian Steele

Location Name: BRGWC-29I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.63 ft Total Depth: 23.63 ft Initial Depth to Water: 10.5 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake From TOC: 18.6 ft Estimated Total Volume Pumped: 9800 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 12:06 PM	00:00	3.17 pH	22.58 °C	632.77 µS/cm	3.81 mg/L	1.76 NTU	264.3 mV	10.50 ft	280.00 ml/min
9/28/2021 12:11 PM	05:00	3.97 pH	21.77 °C	556.61 µS/cm	1.27 mg/L	1.31 NTU	254.0 mV	10.50 ft	280.00 ml/min
9/28/2021 12:16 PM	10:00	4.17 pH	21.68 °C	555.90 µS/cm	1.30 mg/L	1.19 NTU	206.2 mV	10.50 ft	280.00 ml/min
9/28/2021 12:21 PM	15:00	4.21 pH	21.69 °C	555.24 µS/cm	1.15 mg/L	0.76 NTU	200.2 mV	10.50 ft	280.00 ml/min
9/28/2021 12:26 PM	20:00	4.22 pH	21.73 °C	545.02 µS/cm	1.18 mg/L	0.50 NTU	196.3 mV	10.50 ft	280.00 ml/min
9/28/2021 12:31 PM	25:00	4.23 pH	21.73 °C	550.88 µS/cm	1.07 mg/L	0.63 NTU	193.9 mV	10.50 ft	280.00 ml/min
9/28/2021 12:36 PM	30:00	4.23 pH	21.73 °C	554.52 µS/cm	1.20 mg/L	0.59 NTU	192.7 mV	10.50 ft	280.00 ml/min
9/28/2021 12:41 PM	35:00	4.23 pH	21.65 °C	548.93 µS/cm	1.06 mg/L	0.42 NTU	191.9 mV	10.50 ft	280.00 ml/min
9/28/2021 12:46 PM	40:00	4.23 pH	21.58 °C	550.20 µS/cm	1.00 mg/L	0.42 NTU	191.1 mV	10.50 ft	280.00 ml/min

Samples

Sample ID:	Description:
BRGWC-29I	App III/IV Rad Extra RAD

Low-Flow Test Report:

Test Date / Time: 9/28/2021 12:25:37 PM

Project: Plant Branch (19)

Operator Name: D. Herrera

Location Name: PZ-58I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.93 ft Total Depth: 63.93 ft Initial Depth to Water: 37.78 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 12500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 12:25 PM	00:00	3.63 pH	32.20 °C	1,197.3 µS/cm	6.35 mg/L	25.70 NTU	169.9 mV	37.78 ft	250.00 ml/min
9/28/2021 12:30 PM	05:00	4.02 pH	22.91 °C	1,355.6 µS/cm	0.77 mg/L	23.20 NTU	108.4 mV	37.82 ft	250.00 ml/min
9/28/2021 12:35 PM	10:00	4.02 pH	22.58 °C	1,396.0 µS/cm	0.60 mg/L	29.10 NTU	107.4 mV	37.82 ft	250.00 ml/min
9/28/2021 12:40 PM	15:00	4.02 pH	22.32 °C	1,403.9 µS/cm	0.51 mg/L	26.30 NTU	111.8 mV	37.82 ft	250.00 ml/min
9/28/2021 12:45 PM	20:00	4.01 pH	22.00 °C	1,399.7 µS/cm	0.45 mg/L	15.98 NTU	119.3 mV	37.82 ft	250.00 ml/min
9/28/2021 12:50 PM	25:00	4.01 pH	22.30 °C	1,405.1 µS/cm	0.41 mg/L	17.90 NTU	129.1 mV	37.82 ft	250.00 ml/min
9/28/2021 12:55 PM	30:00	4.01 pH	22.49 °C	1,404.6 µS/cm	0.36 mg/L	13.40 NTU	142.7 mV	37.82 ft	250.00 ml/min
9/28/2021 1:00 PM	35:00	4.01 pH	22.39 °C	1,402.5 µS/cm	0.31 mg/L	9.45 NTU	161.0 mV	37.82 ft	250.00 ml/min
9/28/2021 1:05 PM	40:00	4.01 pH	22.57 °C	1,408.9 µS/cm	0.27 mg/L	7.06 NTU	181.3 mV	37.82 ft	250.00 ml/min
9/28/2021 1:10 PM	45:00	4.01 pH	22.45 °C	1,403.5 µS/cm	0.24 mg/L	5.77 NTU	205.6 mV	37.82 ft	250.00 ml/min
9/28/2021 1:15 PM	50:00	4.00 pH	22.45 °C	1,402.8 µS/cm	0.21 mg/L	4.85 NTU	221.2 mV	37.82 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-58I	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 1:41:51 PM

Project: Plant Branch

Operator Name: Brian Steele

Location Name: BRGWC-271 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.41 ft Total Depth: 24.41 ft Initial Depth to Water: 7.84 ft	Pump Type: Dedicited Tubing Type: Polyethylene Pump Intake From TOC: 20.41 ft Estimated Total Volume Pumped: 8153 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 1:41 PM	00:00	5.56 pH	24.08 °C	368.52 µS/cm	3.42 mg/L	1.87 NTU	103.3 mV	7.87 ft	200.00 ml/min
9/28/2021 1:42 PM	00:35	5.59 pH	23.40 °C	364.85 µS/cm	2.52 mg/L	1.60 NTU	118.9 mV	7.87 ft	200.00 ml/min
9/28/2021 1:42 PM	00:46	5.61 pH	23.15 °C	365.64 µS/cm	2.30 mg/L	1.50 NTU	122.2 mV	7.87 ft	200.00 ml/min
9/28/2021 1:47 PM	05:46	5.71 pH	21.45 °C	367.05 µS/cm	0.77 mg/L	1.91 NTU	132.0 mV	7.87 ft	200.00 ml/min
9/28/2021 1:52 PM	10:46	5.76 pH	21.73 °C	365.84 µS/cm	0.25 mg/L	1.19 NTU	139.0 mV	7.87 ft	200.00 ml/min
9/28/2021 1:57 PM	15:46	5.77 pH	21.50 °C	363.80 µS/cm	0.17 mg/L	1.20 NTU	167.0 mV	7.87 ft	200.00 ml/min
9/28/2021 2:02 PM	20:46	5.80 pH	21.59 °C	361.84 µS/cm	0.32 mg/L	0.86 NTU	143.2 mV	7.87 ft	200.00 ml/min
9/28/2021 2:07 PM	25:46	5.81 pH	21.33 °C	361.93 µS/cm	0.20 mg/L	0.93 NTU	161.8 mV	7.87 ft	200.00 ml/min
9/28/2021 2:12 PM	30:46	5.81 pH	21.39 °C	362.00 µS/cm	0.19 mg/L	0.85 NTU	162.3 mV	7.87 ft	200.00 ml/min
9/28/2021 2:17 PM	35:46	5.80 pH	21.20 °C	363.30 µS/cm	0.13 mg/L	0.77 NTU	138.5 mV	7.87 ft	200.00 ml/min
9/28/2021 2:22 PM	40:46	5.82 pH	21.15 °C	361.51 µS/cm	0.28 mg/L	0.58 NTU	161.7 mV	7.87 ft	200.00 ml/min

Samples

Sample ID:	Description:
BRGWC-271	EB-2 App III/IV

BRGWC-271

Rad

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/28/2021 2:14:21 PM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PZ-571 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 65.93 ft Total Depth: 75.93 ft Initial Depth to Water: 35.55 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 70 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 2:14 PM	00:00	5.46 pH	29.20 °C	657.98 µS/cm	3.65 mg/L	10.57 NTU	172.5 mV	35.55 ft	250.00 ml/min
9/28/2021 2:19 PM	05:00	5.40 pH	22.22 °C	673.77 µS/cm	0.87 mg/L	6.91 NTU	134.9 mV	36.00 ft	250.00 ml/min
9/28/2021 2:24 PM	10:00	5.39 pH	21.88 °C	675.08 µS/cm	0.43 mg/L	5.01 NTU	167.0 mV	36.02 ft	250.00 ml/min
9/28/2021 2:29 PM	15:00	5.37 pH	22.05 °C	694.37 µS/cm	0.31 mg/L	3.97 NTU	114.4 mV	36.02 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-571	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 2:18:16 PM

Project: Plant Branch (20)

Operator Name: D. Herrera

Location Name: PZ-44 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47 ft Total Depth: 57 ft Initial Depth to Water: 25.51 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 2:18 PM	00:00	6.22 pH	30.72 °C	262.83 µS/cm	2.59 mg/L	5.89 NTU	142.9 mV	25.51 ft	250.00 ml/min
9/28/2021 2:23 PM	05:00	6.21 pH	24.15 °C	284.68 µS/cm	0.40 mg/L	3.18 NTU	140.8 mV	25.85 ft	250.00 ml/min
9/28/2021 2:28 PM	10:00	6.21 pH	23.97 °C	289.07 µS/cm	0.27 mg/L	3.60 NTU	139.1 mV	25.85 ft	250.00 ml/min
9/28/2021 2:33 PM	15:00	6.21 pH	23.93 °C	289.78 µS/cm	0.21 mg/L	4.27 NTU	134.4 mV	25.85 ft	250.00 ml/min
9/28/2021 2:38 PM	20:00	6.21 pH	23.66 °C	291.77 µS/cm	0.18 mg/L	4.90 NTU	132.1 mV	25.85 ft	250.00 ml/min
9/28/2021 2:43 PM	25:00	6.21 pH	23.46 °C	290.79 µS/cm	0.16 mg/L	1.96 NTU	128.2 mV	25.85 ft	250.00 ml/min
9/28/2021 2:48 PM	30:00	6.22 pH	23.39 °C	291.58 µS/cm	0.15 mg/L	2.13 NTU	126.6 mV	25.85 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-44	

Low-Flow Test Report:

Test Date / Time: 9/28/2021 3:29:17 PM

Project: Plant Branch

Operator Name: Brian Steele

Location Name: BRGWC-32S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38 ft Total Depth: 48 ft Initial Depth to Water: 37.6 ft	Pump Type: Dedicte Tubing Type: Polyethylene Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 7800 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.7 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 3:29 PM	00:00	5.77 pH	21.48 °C	421.29 µS/cm	6.21 mg/L	1.30 NTU	173.0 mV	37.60 ft	120.00 ml/min
9/28/2021 3:34 PM	05:00	5.77 pH	21.32 °C	417.91 µS/cm	5.56 mg/L	2.44 NTU	158.0 mV	38.30 ft	120.00 ml/min
9/28/2021 3:39 PM	10:00	5.78 pH	21.42 °C	424.38 µS/cm	5.10 mg/L	2.15 NTU	153.9 mV	38.30 ft	120.00 ml/min
9/28/2021 3:44 PM	15:00	5.80 pH	21.41 °C	434.87 µS/cm	4.84 mg/L	1.28 NTU	181.5 mV	38.30 ft	120.00 ml/min
9/28/2021 3:49 PM	20:00	5.80 pH	21.19 °C	439.10 µS/cm	4.72 mg/L	2.96 NTU	182.6 mV	38.30 ft	120.00 ml/min
9/28/2021 3:54 PM	25:00	5.81 pH	21.11 °C	443.61 µS/cm	4.49 mg/L	3.04 NTU	181.8 mV	38.30 ft	120.00 ml/min
9/28/2021 3:59 PM	30:00	5.81 pH	21.06 °C	444.36 µS/cm	4.42 mg/L	2.58 NTU	180.7 mV	38.30 ft	120.00 ml/min
9/28/2021 4:04 PM	35:00	5.81 pH	20.97 °C	445.07 µS/cm	4.40 mg/L	1.89 NTU	179.6 mV	38.30 ft	120.00 ml/min
9/28/2021 4:09 PM	40:00	5.81 pH	21.08 °C	445.00 µS/cm	4.39 mg/L	1.50 NTU	179.1 mV	38.30 ft	120.00 ml/min
9/28/2021 4:14 PM	45:00	5.81 pH	20.53 °C	447.56 µS/cm	4.44 mg/L	1.38 NTU	178.1 mV	38.30 ft	120.00 ml/min
9/28/2021 4:19 PM	50:00	5.81 pH	20.47 °C	448.82 µS/cm	4.53 mg/L	1.19 NTU	177.1 mV	38.30 ft	120.00 ml/min
9/28/2021 4:24 PM	55:00	5.81 pH	20.39 °C	447.91 µS/cm	4.52 mg/L	0.82 NTU	176.5 mV	38.30 ft	120.00 ml/min
9/28/2021 4:29 PM	01:00:00	5.82 pH	20.30 °C	448.82 µS/cm	4.50 mg/L	0.63 NTU	175.6 mV	38.30 ft	120.00 ml/min
9/28/2021 4:34 PM	01:05:00	5.82 pH	20.39 °C	448.60 µS/cm	4.47 mg/L	1.02 NTU	175.2 mV	38.30 ft	120.00 ml/min

Samples

Sample ID:	Description:
BRGWC-32S	App III/IV rad

Low-Flow Test Report:

Test Date / Time: 9/28/2021 3:59:48 PM

Project: Plant Branch (21)

Operator Name: D. Herrera

Location Name: BRGWC-30I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.35 ft Total Depth: 22.35 ft Initial Depth to Water: 4.14 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.41 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 3:59 PM	00:00	6.27 pH	25.69 °C	1,015.4 µS/cm	5.92 mg/L	6.39 NTU	123.0 mV	4.14 ft	200.00 ml/min
9/28/2021 4:04 PM	05:00	6.24 pH	25.40 °C	1,167.9 µS/cm	3.41 mg/L	26.60 NTU	115.4 mV	4.50 ft	200.00 ml/min
9/28/2021 4:09 PM	10:00	6.31 pH	21.33 °C	1,436.3 µS/cm	0.57 mg/L	13.23 NTU	114.8 mV	4.50 ft	200.00 ml/min
9/28/2021 4:14 PM	15:00	6.33 pH	20.90 °C	1,440.1 µS/cm	0.21 mg/L	8.72 NTU	114.4 mV	4.50 ft	200.00 ml/min
9/28/2021 4:19 PM	20:00	6.33 pH	20.75 °C	1,456.4 µS/cm	0.32 mg/L	5.86 NTU	113.7 mV	4.55 ft	200.00 ml/min
9/28/2021 4:24 PM	25:00	6.33 pH	20.69 °C	1,457.9 µS/cm	0.36 mg/L	3.70 NTU	112.6 mV	4.55 ft	200.00 ml/min
9/28/2021 4:29 PM	30:00	6.33 pH	20.65 °C	1,468.9 µS/cm	0.15 mg/L	3.29 NTU	112.3 mV	4.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
BRGWC-30I	DUP-3 and extra Rad

Low-Flow Test Report:

Test Date / Time: 9/28/2021 4:00:58 PM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-52I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.6 ft Total Depth: 76.6 ft Initial Depth to Water: 39 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/28/2021 4:00 PM	00:00	7.22 pH	27.29 °C	403.27 µS/cm	2.96 mg/L	6.66 NTU	76.5 mV	39.00 ft	250.00 ml/min
9/28/2021 4:05 PM	05:00	6.84 pH	21.06 °C	539.96 µS/cm	1.58 mg/L	3.58 NTU	-52.7 mV	39.55 ft	250.00 ml/min
9/28/2021 4:10 PM	10:00	6.84 pH	20.61 °C	547.46 µS/cm	0.58 mg/L	2.80 NTU	-62.6 mV	39.60 ft	250.00 ml/min
9/28/2021 4:15 PM	15:00	6.81 pH	20.57 °C	544.08 µS/cm	0.42 mg/L	2.53 NTU	-61.0 mV	39.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-52I	FB-3; EB-3

PURGING AND SAMPLING FORM

Project #: 166025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWA-2I</u>	Date: <u>09/22/21</u>	Water Level (ft): <u>11.02</u>	Time (VL): <u>0925</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Cloudy</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>64.30</u>	Water Column (ft): <u>53.28</u>	Well Volume (gal): <u>808</u>
Start Purge: <u>0951</u>	End Purge: <u>1021</u>	Top of Pump (ft): <u>-59</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>7.2L</u>	
Evacuation Equipment: <u>GEO</u>		Purging Personnel: <u>E. Rheans</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>4392-1914</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTDC)	Pumping Rate
1021			6.78	183.23	0.57	20.71	37.1	2.94	12.55	120 gal/min
Sampled @ 1021										
(A diagonal line is drawn across the remaining empty rows of the table.)										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWA-2I Sample Date/Time: 09/22/21 1021 Metals Date/Time: 09/29/21 1021
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.94
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/22/21 1021

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	-	Chloride, Fluoride, Sulfate
1	500 mL plastic	-	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: E. Rheans

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWA-25</u>	Date: <u>09/22/21</u>	Water Level (ft): <u>11.01</u>	Time (WL): <u>1050</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>Cloudy</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>44.60</u>	Water Column (ft): <u>33.59</u>	Well Volume (gal): <u>5.48</u>
Start Purge: <u>1055</u>	End Purge: <u>1125</u>	Top of Pump (ft): <u>37</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>6.6 L</u>	
Evacuation Equipment: <u>QED</u>		Purging Personnel: <u>E. Rheams</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>4392-1914</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1125</u>	<u>Clear</u>	<u>None</u>	<u>6.06</u>	<u>69.21</u>	<u>0.87</u>	<u>12.95</u>	<u>49.7</u>	<u>0.71</u>	<u>11.10</u>	<u>220 mL/min</u>
		<u>Sampled @</u>	<u>1125</u>							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWA-25 Sample Date/Time: 09/22/21 1125 Metals Date/Time: 09/22/21 1125
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 0.71
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/22/21 1125

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: _____

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGWA-5I	Date: 09/21/21	Water Level (ft): 11.86	Time (WL): 1202
Physical Condition of Well: Good		Weather: Cloudy	
Well Diameter (in): 2	Well Depth (ft): 61.20	Water Column (ft): 49.34	Well Volume (gal): 809
Start Purge: 1215	End Purge: 1230	Top of Pump (ft): 56	
Evacuation Method: Low-Flow		Volume Removed (L): 4.2	
Evacuation Equipment: QED		Purging Personnel: E. Rhcums	
SmartTrill serial #: 850767		LaMotte serial #: 4392-1914	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1230	Clear	None	6.32	186.32	5.01	18.23	100.5	4.36	12.11	280 mL/min
			Sampled @ 1230							
/										

Stabilization Criteria: pH \pm 0.1 S.U.; Conductivity \pm 5%; Dissolved Oxygen \pm 10% or 0.2 mg/L (whichever is greater, for DO < 0.5 mg/L, record only, no stabilization criteria); Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWA-5I Sample Date/Time: 09/21/21 1230 Metals Date/Time: 09/21/21 1230
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 4.36
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/21/21 1230

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
1	250 mL plastic	-	Chloride, Fluoride, Sulfate
1	500 mL plastic	-	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: E. Rhcums

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRCWA-55</u>	Date: <u>09/21/21</u>	Water Level (ft): <u>11.95</u>	Time (WL): <u>1300</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Clear</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>90.0</u>	Water Column (ft): <u>28.05</u>	Well Volume (gal): <u>4.57</u>
Start Purge: <u>1307</u>	End Purge: <u>1628</u>	Top of Pump (ft): <u>35</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>20.1 L</u>	
Evacuation Equipment: <u>QED</u>		Purging Personnel: <u>E. Rheams</u>	
SmartTroll serial #: <u>850767</u>		LaMotte serial #: <u>4392-1914</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R/BTOC)	Pumping Rate
<u>1628</u>	<u>Clear</u>	<u>None</u>	<u>6.36</u>	<u>189.75</u>	<u>1.95</u>	<u>19.18</u>	<u>74.4</u>	<u>2.27</u>	<u>12.10</u>	<u>10.4 gpm</u>
<u>Sampled @ 1628</u>										
(The remaining rows of the table are crossed out with a diagonal line.)										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRCWA-55 Sample Date/Time: 09/21/21 1628 Metals Date/Time: 09/21/21 1628
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.27
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/21/21 1628

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>-- HNO3</u>	<u>Radium 226/228</u>

Signature: E. Rheams

PURGING AND SAMPLING FORM

Project #: 166025421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRCWA-65	Date: 9/22/21	Water Level (ft): 26.2	Time (ML): 11:15
Physical Condition of Well: good	Weather: 75° overcast		
Well Diameter (in): 2	Well Depth (ft): 52.90	Water Column (ft): 26.7	Well Volume (gal):
Start Purge: 11:32	End Purge: 11:55	Top of Pump (ft): 42.90	
Evacuation Method: Low-Flow		Volume Removed (L): 3.4	
Evacuation Equipment: dedicated		Purging Personnel: [Signature]	
SmarTroll serial #: 850251		LaMotte serial #: 156-4111	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (°C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
11:50	clear	none	6.48	55.25	6.42	21.33	84.60	0.99	27.05	200
(N)										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRCWA-65 Sample Date/Time: 9/22/21 11:55 Metals Date/Time: /
 Duplicate: / Dup Date/Time: / Final Turbidity NTU: 0.99
 Field Blank: / Blank Date/Time: / Turbidity Date/Time: 9/22/21

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BSGWA-121	Date: 9/21/21	Water Level (ft): 50.3	Time (WL): 1055
Physical Condition of Well: 600s		Weather: 23 mostly cloudy	
Well Diameter (in): 2	Well Depth (ft): 80.54	Water Column (ft): 30.41	Well Volume (gal): 4.96
Start Purge: 11:00	End Purge: 1350	Top of Pump (ft): 70.54	
Evacuation Method: Low-Flow		Volume Removed (L): 29.5	
Evacuation Equipment: dedicated		Purging Personnel: Erin D'Fordt	
SmarTroll serial #: 850751		LaMotte serial #: 1510-4111	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1217	Turbidity meter check - kept pumping									
1303	Started measurements again									
133	Turbidity meter not reading properly still pumping - stopped before measurements									
1331	Start measurements again									
1346	Clear	none	6.53	151.59	4.79	22.77	84.2	3.52	63.95	240.0 L/min

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 23L purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BSGWA-121 Sample Date/Time: 9/21/21 1350 Metals Date/Time: _____
 Duplicate: / Dup Date/Time: _____ Final Turbidity NTU: 3.52
 Field Blank: / Blank Date/Time: _____ Turbidity Date/Time: 9/21/21 1346

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRCWA-125</u>	Date: <u>9/21/21</u>	Water Level (ft): <u>50.4</u>	Time (WL): <u>10:00</u>
Physical Condition of Well: <u>good</u>		Weather: <u>73° mostly cloudy</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>6101</u>	Water Column (ft): <u>10.61</u>	Well Volume (gal):
Start Purge: <u>1015</u>	End Purge: <u>1038</u>	Top of Pump (ft): <u>51.01</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5.6</u>	
Evacuation Equipment: <u>DEDICATED</u>		Purging Personnel: <u>Jim D'Amico</u>	
SmartTroll serial #: <u>850757</u>		LaMotte serial #: <u>1510-4111</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1038</u>	<u>Clear</u>	<u>None</u>	<u>5.87</u>	<u>75.58</u>	<u>6.6</u>	<u>21.22</u>	<u>921</u>	<u>0.15</u>	<u>51.02</u>	<u>280 ml/min</u>

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 23L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRCWA-125 Sample Date/Time: 1015 9/21/21 Metals Date/Time:
 Duplicate: Dup Date/Time: Final Turbidity NTU: 0.15
 Field Blank: Blank Date/Time: Turbidity Date/Time: 9/21/21 1038

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGWA-235	Date: 9/21/21	Water Level (ft): 37.1	Time (WL): 1600
Physical Condition of Well: good	Weather: 75° overcast		
Well Diameter (in): 2	Well Depth (ft): 43.80	Water Column (ft): 6.7	Well Volume (gal): 1.09
Start Purge: 9/21/21 1615	End Purge: 9/21/21 1607	Top of Pump (ft): 33.80	
Evacuation Method: Low-Flow	Volume Removed (L): 12.4		
Evacuation Equipment: dedicated	Purging Personnel: Crm D. Mondt		
SmarTroll serial #: 850751	LaMotte serial #: 150-4111		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
Pumped 3 well volumes before sampling										
10:07	clear	none	5.72	14792	4.82	22.18	97.3	3.80	38.29	120

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 23L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWA-235 Sample Date/Time: 9/22/21 1010 Metals Date/Time: /
 Duplicate: / Dup Date/Time: / Final Turbidity NTU: 3.80
 Field Blank: / Blank Date/Time: / Turbidity Date/Time: 1007 9/22/21

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature:

PURGING AND SAMPLING FORM

Project #: 106625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BAGWC-17^S</u>	Date: <u>9/22/21</u>	Water Level (ft): <u>5.21</u>	Time (ML): <u>11:24</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>cloudy, 75°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>6.15</u>	Water Column (ft): <u>0.94</u>	Well Volume (gal): <u>0.15</u>
Start Purge: <u>11:39</u>	End Purge: <u>12:09</u>	Top of Pump (ft): <u>6.0</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>7.5 L</u>		
Evacuation Equipment: <u>PERISALTIC</u>	Purging Personnel: <u>JUNE WAGNER</u>		
SmarTroll serial #: <u>843593</u>	LaMotte serial #: <u>4392-1914</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>12:07</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.22</u>	<u>407.12</u>	<u>1.47</u>	<u>22.31</u>	<u>98.5</u>	<u>4.57</u>	<u>5.50</u>	<u>250 $\frac{L}{min}$</u>
			<u>SAMPLED @ 12:09</u>							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2 mg/L (whichever is greater; for DO < 0.5 mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume $\geq 3L$ purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BAGWC-17^S Sample Date/Time: 9.22.21/12:07 Metals Date/Time: 9.22.21/12:07
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 4.57
 Field Blank: EB-1 Blank Date/Time: 9.22.21/12:00 Turbidity Date/Time: 9.22.21/12:05

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>2</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>2</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: _____

EB-1 w/ PERISALTIC PURGING

0.15 gal x 3 = 0.46 gal = 1.74 L = 3 well volume

PURGING AND SAMPLING FORM

Handwritten scribbles and initials in the top right corner.

Project #: 166825421		Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>BLGWC-25E</u>		Date: <u>9-28-2021</u>		Water Level (ft): <u>9.55</u>	
Physical Condition of Well: <u>Good</u>		Weather: <u>Sunny 80°F</u>		Time (WL): <u>1045</u>	
Well Diameter (in): <u>2</u>		Well Depth (ft): <u>24.41</u>		Water Column (ft): <u>14.86</u>	
Start Purge: <u>1055</u>		End Purge: <u>1125</u>		Well Volume (gal): <u>5.47</u>	
Evacuation Method: <u>Low-Flow</u>		Top of Pump (ft): <u>20.41</u>		Volume Removed (L): <u>2.42 gal</u>	
Evacuation Equipment: <u>Dedicated 4" PVC line, NPS</u>		Purging Personnel: <u>Brian Steele</u>			
SmartTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>			

Began purge at

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
<u>1125</u>	<u>Clear</u>	<u>None</u>	<u>5.93</u>	<u>372.46</u>	<u>0.29</u>	<u>19.81</u>	<u>131.1</u>	<u>0.85</u>	<u>9.70</u>	<u>32 m/min</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 2x, purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BLGWC-25E Sample Date/Time: 9-28-21/1126 Metals Date/Time: same

Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.85

Field Blank: — Blank Date/Time: — Turbidity Date/Time: 9-28-21/1125

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Handwritten Signature]

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B26WL-27E</u>	Date: <u>9.28.21</u>	Water Level (ft): <u>7.84</u>	Time (ML): <u>1337</u>
Physical Condition of Well: <u>G-1</u>		Weather: <u>Sunny</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>33.41</u>	Water Column (ft): <u>25.57</u>	Well Volume (gal): <u>4.16</u>
Start Purge: <u>1343</u>	End Purge: <u>1425</u>	Top of Pump (ft): <u>28</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>2.5 gal</u>	
Evacuation Equipment: <u>port. pump, MP-50</u>		Purging Personnel: <u>Brin Stork</u>	
SmarTroll serial #: <u>150767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>9:28:1425</u>	<u>clear</u>	<u>none</u>	<u>5.82</u>	<u>341.51</u>	<u>0.28</u>	<u>21.15</u>	<u>161.7</u>	<u>0.58</u>	<u>7.87</u>	<u>2.00 gal/min</u>

Stabilization Criteria: pH ± 0.1 S.U. Conductivity ± 5%. Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria). Turbidity ≤ 5 NTU; Purge volume ≥ 20L, purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B26WL-27E Sample Date/Time: 9.28.21/1430 Metals Date/Time: 9/28/21/1430
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.58
 Field Blank: — Blank Date/Time: EG-26 1450 Turbidity Date/Time: 9.28.21/1425

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>2</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>2</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

PURGING AND SAMPLING FORM *fill the says 25 I*

Project #: 16625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BROWN-29E</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>10.50</u>	Time (ML): <u>1159</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>Sunny 85°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>23.63</u>	Water Column (ft): <u>13.13</u>	Well Volume (gal): <u>2.14</u>
Start Purge: <u>1205</u>	End Purge: <u>1250</u>	Top of Pump (ft): <u>18.6'</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>12.6 L</u>	
Evacuation Equipment: <u>Dot. Pump, ML-50</u>		Purging Personnel: <u>Brian Steele</u>	
SmartTroll serial #: <u>550767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1250</u>	<u>Clear</u>	<u>none</u>	<u>4.23</u>	<u>548.93</u>	<u>1.04</u>	<u>21.65</u>	<u>191.9</u>	<u>0.42</u>	<u>10.50</u>	<u>2.00 mL/min</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft. Temp and ORP record only

Sample Description

Sample ID: Brown-29E Sample Date/Time: 9-28-21/1251 Metals Date/Time: 9-28-21/1251 ^{Bs}
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.42
 Field Blank: FB-2 Blank Date/Time: — Turbidity Date/Time: 9-28-21/1250
Q 1315

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>TDS</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

extra rads.

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6WC-30I</u>	Date: <u>9.28.2021</u>	Water Level (ft): <u>4.14</u>	Time (WL): <u>8:1550</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>Sunny 85°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>22.35</u>	Water Column (ft): <u>18.21</u>	Well Volume (gal): <u>2.97</u>
Start Purge: <u>15:58</u>	End Purge: <u>16:30</u>	Top of Pump (ft): <u>48</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>~62</u>	
Evacuation Equipment: <u>Dedicated Bladder</u>		Purging Personnel: <u>D. Hemen</u>	
SmarTroll serial #: <u>850751</u>		LaMotte serial #: <u>26862</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1630</u>	<u>Clear</u>	<u>none</u>	<u>6.33</u>	<u>6468.9</u>	<u>0.15</u>	<u>20.65</u>	<u>112.3</u>	<u>3.29</u>	<u>4.95</u>	<u>2000 L</u>
<u>* Extra radr</u>										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 20L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WC-30I Sample Date/Time: 9.28.21/1630 Metals Date/Time: 9.28.21/1630
 Duplicate: FD-3 Dup Date/Time: 9.28.2021/- Final Turbidity NTU: 3.29
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 9.28.21/1630

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1+1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1+1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1+1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2+2+2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: D. Hemen

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGUC-325	Date: 9-28-21	Water Level (ft): 37.60	Time (WL): 1522
Physical Condition of Well: Good	Weather: Sunny 80°F		
Well Diameter (in): 2	Well Depth (ft): 48.00	Water Column (ft): 10.4	Well Volume (gal): 1.69
Start Purge: 1539	End Purge:	Top of Pump (ft): 44	
Evacuation Method: Low-Flow	Volume Removed (L):		
Evacuation Equipment: Delineator MP-50	Purging Personnel: Brian Stech		
SmartTroll serial #: 850767	LaMotte serial #: 5990-3915		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1636	Clear	none	5.82	448.60	4.47	20.39	175.2	1.02	38.30	120 mL/min

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGUC-325 Sample Date/Time: 9-28-21 / 1640 Metals Date/Time: 9-28-21 / 1640
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 1.02
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 9-28-21 / 1640

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGWC-335	Date: 9/22/21	Water Level (ft): 11.75	Time (WL): 1430
Physical Condition of Well: Good	Weather: 75° Rainy		
Well Diameter (in): 2	Well Depth (ft): 31.66	Water Column (ft): 19.91	Well Volume (gal): 5.25
Start Purge: 1438	End Purge: 1503	Top of Pump (ft): 26.66	
Evacuation Method: Low-Flow	Volume Removed (L): 5.4		
Evacuation Equipment: Dedicated	Purging Personnel: Tim Dittman		
SmarTroll serial #: 650751	LaMotte serial #: 1510-4111		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTDC)	Pumping Rate
1503	Clear	None	4.81	257.5 0.17	0.17	20.75	120.7	3.55	11.80	280

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 2L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWC-335 Sample Date/Time: 9/22/21 15:00⁰⁰ Metals Date/Time: /
 Duplicate: / Dup Date/Time: / Final Turbidity NTU: 3.55
 Field Blank: FB-1 Blank Date/Time: 9/22/21 15:30⁰⁰ Turbidity Date/Time: 9/22/21 15

# Sample Bottles	Container	Preservative	Analyte(s)
2	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
2	250 mL plastic	--	Chloride, Fluoride, Sulfate
2	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGWC-345	Date: 9/22/21	Water Level (ft): 297	Time (WL): 1550
Physical Condition of Well: good	Weather: 75° + mostly cloudy		
Well Diameter (in): 2	Well Depth (ft): 52.64	Water Column (ft): 49.67	Well Volume (gal): 81
Start Purge: 1600	End Purge: 1715	Top of Pump (ft): 42.64	47.64
Evacuation Method: Low-Flow	Dedicated		Volume Removed (L): 2019
Evacuation Equipment: Dedicated	Purging Personnel: C. D. Hart		
Smartroll serial #: 850751	LaMotte serial #: 1510-4111		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
1715	clear	none	7.85	603.28	2.15	21.02	113	1.48	3.01	280

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWC-345 Sample Date/Time: 9/22/21 1700 Metals Date/Time:
 Duplicate: Dup Date/Time: Final Turbidity NTU: 1.48
 Field Blank: Blank Date/Time: Turbidity Date/Time: 9/22/21 1715

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
1	250 mL plastic	-	Chloride, Fluoride, Sulfate
1	500 mL plastic	-	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: C.D.H.

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: <u>BRGW-355</u>	Date: <u>9/23/21</u>	Water Level (ft): <u>1.59'</u>	Time (ML): <u>9:39</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>57° & Sunny</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>35.34</u>	Water Column (ft): <u>33.75</u>	Well Volume (gal): <u>5.5</u>
Start Purge: <u>9:43</u>	End Purge: <u>9:59</u>	Top of Pump (ft): <u>2034 3034</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5.4</u>	
Evacuation Equipment: <u>Dedicated</u>		Purging Personnel: <u>Chris Bond</u>	
SmarTroll serial #: <u>850251</u>		LaMotte serial #: <u>1510-4111</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	OTW (# BTOC)	Pumping Rate
<u>9:59</u>	<u>Clear</u>	<u>none</u>	<u>6.02</u>	<u>6385</u>	<u>0.11</u>	<u>18.96</u>	<u>689</u>	<u>1.8</u>	<u>1.68</u>	<u>360</u>
<u>SAV</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGW-355 Sample Date/Time: 9/23/21 10:05 Metals Date/Time: ✓
 Duplicate: FD-1 Dup Date/Time: 9/23/21 10:05 Final Turbidity NTU: 1.80
 Field Blank: ✓ Blank Date/Time: ✓ Turbidity Date/Time: 9/23/21 9:59

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>2</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>2</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>1</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6WC-365</u>	Date: <u>9/22/21</u>	Water Level (ft): <u>2.90</u>	Time (WL): <u>09:40</u>
Physical Condition of Well: <u>GOOD</u>		Weather: <u>cloudy</u> , <u>73°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>34.02</u>	Water Column (ft): <u>31.12</u>	Well Volume (gal): <u>5.07</u>
Start Purge: <u>9:54</u>	End Purge: <u>10:09</u>	Top of Pump (ft): <u>~29</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>3.75</u>	
Evacuation Equipment: <u>PERISTALTIC</u>		Purging Personnel: <u>JUDE WAGUESPACK</u>	
SmarTroll serial #: <u>843593</u>		LaMotte serial #: <u>4392-1914</u>	

Purge Data/Field Parameters


Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>10:09</u>	<u>CLEAR</u>	<u>NONE</u>	<u>5.53</u>	<u>570.33</u>	<u>1.77</u>	<u>20.56</u>	<u>135.8</u>	<u>2.55</u>	<u>3.65</u>	<u>250 $\frac{mL}{min}$</u>
			<u>SAMPLED @ 10:09</u>							

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WC-365 Sample Date/Time: 9.22.21/10:09 Metals Date/Time: 9.22.21/10:09
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 2.55
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9.22.21/10:09

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRGW-373	Date: 9/23/21	Water Level (ft): 51.14	Time (WL): 1145
Physical Condition of Well: Good	Weather: 68° Sunny		
Well Diameter (in): 2	Well Depth (ft): 68.73	Water Column (ft): 17.57	Well Volume (gal): 2.87
Start Purge: 12:00	End Purge: 12:37	Top of Pump (ft): 63.73	
Evacuation Method: Low-Flow		Volume Removed (L): 300	
Evacuation Equipment: dedicated		Purging Personnel: Erin Dhand	
SmartTroll serial #: 750851		LaMotte serial #: 1510-4111	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft.BTOC)	Pumping Rate
1233	clear	none	5.85	49.37	2.36	22.43	95.9	0.01	51.68	120
(Signature)										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGW-373 Sample Date/Time: 9/23/21 1240 Metals Date/Time: /
 Duplicate: / Dup Date/Time: / Final Turbidity NTU: 0.01
 Field Blank: / Blank Date/Time: / Turbidity Date/Time: 9/23/21 1233

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BEGLX-385	Date: 9/23/21	Water Level (ft): 22.80	Time (WL): 10:30
Physical Condition of Well: Good		Weather: 57° & Sunny	
Well Diameter (in): 2	Well Depth (ft): 43.66	Water Column (ft): 21.46	Well Volume (gal): 3.5
Start Purge: 1043	End Purge: 1113	Top of Pump (ft): 38.66	
Evacuation Method: Low-Flow		Volume Removed (L): 4.8	
Evacuation Equipment: dedicated		Purging Personnel: Cam D. Hordt	
SmarTroll serial #: 850757		LaMotte serial #: 1510-4111	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1113	clear	none	4.05	720.11	1.30	20.22	87.0	0.52	23.05	160
<i>(Large handwritten scribble/initials)</i>										

Stabilization Criteria: pH ± 0.1 S.U. Conductivity ± 5%. Dissolved Oxygen ± 10% or 0.2mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria). Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BEGLX-385 Sample Date/Time: 9/23/21 1120 Metals Date/Time:
 Duplicate: Dup Date/Time: Final Turbidity NTU: 0.58
 Field Blank: Blank Date/Time: Turbidity Date/Time: 9/23/21 1113

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
4	1 L plastic	HNO3	Radium 226/228

Signature: *(Handwritten Signature)*

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWC-45</u>	Date: <u>09/23/21</u>	Water Level (ft): <u>10.99</u>	Time (ML): <u>1140</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Clear</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>60.95</u>	Water Column (ft): <u>49.46</u>	Well Volume (gal): <u>8.06</u>
Start Purge: <u>1155</u>	End Purge: <u>1215</u>	Top of Pump (ft): <u>52.31</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.46</u>	
Evacuation Equipment: <u>886767</u>		Purging Personnel: <u>E. Adams</u>	
SmarTroll serial #: <u>QED</u>		LaMotte serial #: <u>4392-1814</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1215</u>	<u>Clear</u>	<u>None</u>	<u>5.95</u>	<u>448.79</u>	<u>0.41</u>	<u>22.31</u>	<u>44.5</u>	<u>2.40</u>	<u>11.36</u>	<u>220 mL</u>
<u>Sampled @ 1215</u>										
(The remainder of the table is crossed out with a diagonal line.)										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWC-45 Sample Date/Time: 09/23/21 1215 Metals Date/Time: 09/23/21 1215
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.40
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/23/21 1215

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: _____

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWC-47</u>	Date: <u>07/23/21</u>	Water Level (ft): <u>25.84</u>	Time (VL): <u>1258</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>Clear</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>92.0</u>	Water Column (ft): <u>66.16</u>	Well Volume (gal): <u>10.78</u>
Start Purge: <u>1310</u>	End Purge: <u>1335</u>	Top of Pump (ft): <u>89.55</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.5L</u>	
Evacuation Equipment: <u>GED</u>		Purging Personnel: <u>E. Rhoads</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>4392-1914</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1335</u>	<u>Clear</u>	<u>None</u>	<u>5.74</u>	<u>2383.8</u>	<u>0.68</u>	<u>21.77</u>	<u>-25.2</u>	<u>2.36</u>	<u>26.85</u>	<u>180 mL</u>
<u>Sampled @ 1335</u>										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU, Purge volume \geq 3L, purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWC-47 Sample Date/Time: 07/23/21 1335 Metals Date/Time: 07/23/21 1335
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.36
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 07/23/21 1335

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: _____

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWC-50</u>	Date: <u>9/27/2021</u>	Water Level (ft): <u>37.89</u>	Time (VA): <u>12:15</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>85°F 22-17</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>65.00</u>	Water Column (ft): <u>22.11</u>	Well Volume (gal): <u>300</u> 4.4
Start Purge: <u>1232</u>	End Purge: <u>1305</u>	Top of Pump (ft): <u>60</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>7.5L</u>		
Evacuation Equipment: <u>dedicated bladder</u>	Purging Personnel: <u>D. Herrera</u>		
SmartTroll serial #: <u>85075</u>	LaMotte serial #: <u>26862</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOG)	Pumping Rate
<u>1305</u>	<u>clear</u>	<u>none</u>	<u>5.05</u>	<u>1850.6</u>	<u>0.35</u>	<u>22.35</u>	<u>65.9</u>	<u>4.40</u>	<u>38.05</u>	<u>250ml/min</u>

Stabilization Criteria: pH ± 0.1 S.U. Conductivity ± 5%. Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria). Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRGWC-50 Sample Date/Time: 9/27/21 1305 Metals Date/Time: 9-27-2021/1305
 Duplicate: DUP-2 Dup Date/Time: 9/27/21 Final Turbidity NTU: 4.40
 Field Blank: FB12 Blank Date/Time: — Turbidity Date/Time: 9-27-21/1305

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1+1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1+1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1+1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>TDS</u>
<u>2+2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature] 1 250 mL plastic H2SO4 353 NO2/NO3

PURGING AND SAMPLING FORM

Project #: 106625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BAGWC-52I</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>39.0</u>	Time (ML): <u>15:58</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>sunny 85°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>76.60</u>	Water Column (ft): <u>37.6</u>	Well Volume (gal): <u>613</u>
Start Purge: <u>16:01</u>	End Purge: <u>16:16</u>	Top of Pump (ft): <u>-71</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>3.75 L</u>	
Evacuation Equipment: <u>DEDICATED QUADDER</u>		Purging Personnel: <u>J. WAGESPACK</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3715</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (°C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
<u>16:16</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.81</u>	<u>544.08</u>	<u>0.42</u>	<u>20.57</u>	<u>-610</u>	<u>2.53</u>	<u>39.65</u>	<u>250 $\frac{mL}{min}$</u>
			<u>SAMPLED @</u>		<u>16:16</u>					

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume $\geq 3L$ purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BAGWC-52I Sample Date/Time: 9-28-21/16:16 Metals Date/Time: 9-28-21/16:16
 Duplicate: EB-3 Dup Date/Time: 9-28-21/16:40 Final Turbidity NTU: 2.53
 Field Blank: FB-3 Blank Date/Time: 9-28-21/16:15 Turbidity Date/Time: 9-28-21/16:16

# Sample Bottles	Container	Preservative	Analyte(s)
<u>3</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>3</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>3</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>6</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

1 250 mL plastic without NO₂, NO₃

Signature: [Signature]

EB-3 w/ QUADDER

PURGING AND SAMPLING FORM

Project #: 166625421		Project Name/Site Name: SCS Plant Branch		Page: 1 of 1	
Well ID #: P2-44	Date: 9.28.21	Water Level (ft): 25.51	Time (WL): 25.51 14:18		
Physical Condition of Well: Good		Weather: sunny 85°F			
Well Diameter (in): 2	Well Depth (ft): 57.0	Water Column (ft): 31.49	Well Volume (gal): 5.13		
Start Purge: 14:18	End Purge: 1450	Top of Pump (ft): 52			
Evacuation Method: Low-Flow		Volume Removed (L): 7.5			
Evacuation Equipment: Bladder Pump		Purging Personnel: D. Hena			
SmarTroll serial #: 850751		LaMotte serial #: 26362			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
1450	clear	none	6.22	291.53	0.15	23.39	126.6	2.13	25.85	0.50 L/min
(The remaining rows in the table are crossed out with a diagonal line.)										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-44 Sample Date/Time: 9.28.21/1450 Metals Date/Time: 9.28.21/1450
 Duplicate: Dup Date/Time: Final Turbidity NTU: 2.13
 Field Blank: Blank Date/Time: Turbidity Date/Time: 9.28.21/

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: D. Hena 250 mL plastic NO₂ / NO₃

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>2</u>
Well ID #: <u>P2-50D</u>	Date: <u>9-27-21</u>	Water Level (ft): <u>36.70</u>	Time (WL): <u>13:12</u>
Physical Condition of Well: <u>GOOD</u>		Weather: <u>SUNNY, 85°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>106.0</u>	Water Column (ft): <u>67.3</u>	Well Volume (gal): <u>11.3</u>
Start Purge: <u>13:18</u>	End Purge: <u>16:26</u>	Top of Pump (ft): <u>~ 101</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>94.25 L</u>	
Evacuation Equipment: <u>BLUDDER SAMPLEPRO</u>		Purging Personnel: <u>J. WAGESPACK</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters


Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>15:16</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.39</u>	<u>1515.2</u>	<u>0.27</u>	<u>22.18</u>	<u>-76.0</u>	<u>2.90</u>	<u>63.30</u>	<u>100 $\frac{mL}{min}$</u>
	<u>INCREASE FLOW RATE FOR FULL EVALUATION PRIOR TO SAMPLING</u>									<u>350 $\frac{mL}{min}$</u>
	<u>350 $\frac{mL}{min}$ IS MAX PURGE RATE ALLOWED W/ CURRENT EQUIP</u>									
<u>16:26</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.60</u>	<u>1644.5</u>	<u>3.76</u>	<u>22.02</u>	<u>-57.0</u>	<u>25.0</u>	<u>TOP OF PUMP</u>	<u>350 $\frac{mL}{min}$</u>
	<u>NO SAMPLE - WELL EVACUATED</u>									

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: Sample Date/Time: Metals Date/Time:
 Duplicate: Dup Date/Time: Final Turbidity NTU:
 Field Blank: Blank Date/Time: Turbidity Date/Time:

# Sample Bottles	Container	Preservative	Analyte(s)
<u>—</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>—</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>—</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>—</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>2</u> of <u>2</u>
Well ID #: <u>P2-50D</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>65.30</u>	Time (WL): <u>09:17</u>
Physical Condition of Well: <u>GOOD</u>		Weather: <u>sunny, 68°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>106.0</u>	Water Column (ft): <u>40.7</u>	Well Volume (gal): <u>6.63</u>
Start Purge: <u>09:22</u>	End Purge: <u>09:24</u>	Top of Pump (ft): <u>~101</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>300 mL</u>	
Evacuation Equipment: <u>SAMPLE Pac BUDDER</u>		Purging Personnel: <u>J. WAGUESPACK</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>9:24</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.23</u>	<u>1870.3</u>	<u>4.36</u>	<u>20.58</u>	<u>81.4</u>	<u>4.82</u>	<u>66.20</u>	<u>150 $\frac{mL}{min}$</u>
<u>SAMPLES @ 09:24</u>										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-50D Sample Date/Time: 9.28.21/9:24 Metals Date/Time: 9.28.21/9:24
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 4.82
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9.28.21/9:24

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

1 250 mL H2SO4 NO2, NO3

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 160625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-51D</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>39.90</u>	Time (VL): <u>9:03</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Sunny 75°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>106</u>	Water Column (ft): <u>66.1</u>	Well Volume (gal): <u>10.77</u>
Start Purge: <u>9:13</u>	End Purge: 10:00 <u>11:10</u>	Top of Pump (ft): <u>~101</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>~28750</u>	
Evacuation Equipment: <u>Dedicated bladder pump</u>		Purging Personnel: <u>D. Herrera</u>	
SmartTroll serial #: <u>850751</u>		LaMotte serial #: <u>26862</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mv)	Turbidity (NTU)	DTW (#BTOC)	Pumping Rate
9:13	clear	none						dit		2.50 ml / 100 ml
<u>11:10</u>	<u>clear</u>	<u>none</u>	<u>7.13</u>	<u>9,836.5</u>	<u>3.77</u>	<u>23.35</u>	<u>523</u>	<u>2.97</u>	<u>5.50</u>	<u>2.50 ml / 100 ml</u>
	<u>* decreased</u>	<u>flow</u>	<u>to</u>	<u>100ml</u>	<u>l</u>			<u>2.97</u>	<u>5.50</u>	

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 23L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-51D Sample Date/Time: 9-28-21/11:10 Metals Date/Time: 9-28-21/11:10
 Duplicate: --- Dup Date/Time: --- Final Turbidity NTU: 2.97
 Field Blank: --- Blank Date/Time: --- Turbidity Date/Time: 9-28-21/11:10

# Sample Bottles	Container	Preservative	Analyte(s)
<u>3</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

1 250 mL Plastic
 Signature: D. Herrera

NO2 / NO3

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: PZ-51E	Date: 9-27-21	Water Level (ft): 38.0	Time (WL): 17:10
Physical Condition of Well: Good		Weather: Sunny, 85°F	
Well Diameter (in): 2	Well Depth (ft): 68.0	Water Column (ft): 30.0	Well Volume (gal): 4.89
Start Purge: 17:13	End Purge: 17:33	Top of Pump (ft): -63	
Evacuation Method: Low-Flow		Volume Removed (L): 5.5 L	
Evacuation Equipment: Sample Pro Brunner		Purging Personnel: J. Warkentin	
SmartTroll serial #: 85075		LaMotte serial #: 26862	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
17:33	clear	none	5.39	1570.3	0.48	21.19	76.2	4.37	39.15	300 $\frac{L}{min}$
			sampled @		17:33					

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 23L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-51E Sample Date/Time: 9.27.21/17.33 Metals Date/Time: 9.27.21/17.33
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 4.37
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9.27.21/17.33

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	-	Chloride, Fluoride, Sulfate
1	500 mL plastic	-	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: JW 250 mL HNO3 NO₂, NO₃

PURGING AND SAMPLING FORM

Project #: 166525421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: PZ-515	Date: 9-27-2021	Water Level (ft): 38.17	Time (WL): 1425
Physical Condition of Well: good	Weather: 85°F		
Well Diameter (in): 2	Well Depth (ft): 45.40	Water Column (ft): 7.23	Well Volume (gal): 1.18
Start Purge: 1436	End Purge: 1538	Top of Pump (ft): 40 ft	
Evacuation Method: Low-Flow	Volume Removed (L): 15 L		
Evacuation Equipment: Dedicated bladder	Purging Personnel: D. Herera		
SmartTroll serial #: P5075	LaMotte serial #: 26262		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (# BTOC)	Pumping Rate
1538	clear	none	6.04	137.25	0.44	21.58	55.0	0.70	41.65	250 mL

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.25mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-515 Sample Date/Time: 9-27-21/1538 Metals Date/Time: 9-27-21/1538
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 0.70
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 9-27-21/1538

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

Signature: D. Herera 250 mL Aesthetic H₂O₄ 353 NO₂/NO₃

PURGING AND SAMPLING FORM

Project #: 166525421	Project Name/Site Name: SCS Plant Branch		Page: <u>1 of 1</u>
Well ID #: <u>P2-57I</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>35.55</u>	Time (ML): <u>14:11</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Sunny, 84°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>75.73</u>	Water Column (ft): <u>90.38</u>	Well Volume (gal): <u>6.58</u>
Start Purge: <u>14:14</u>	End Purge: <u>14:29</u>	Top of Pump (ft): <u>~70</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>3.75</u>	
Evacuation Equipment: <u>SAMPLE PAC BUBBLER</u>		Purging Personnel: <u>J. WAGESMACK</u>	
SmartTroll serial #: <u>960767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>14:21</u>	<u>clear</u>	<u>none</u>	<u>5.37</u>	<u>694.37</u>	<u>0.31</u>	<u>22.05</u>	<u>114.4</u>	<u>3.97</u>	<u>36.02</u>	<u>250 $\frac{ml}{min}$</u>
<u>SAMPLES @ 14:29</u>										

Stabilization Criteria: pH \pm 0.1 S.U. Conductivity \pm 5%. Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria). Turbidity \leq 5 NTU. Purge volume \geq 3L purge water, water level \leq 0.3 ft. Temp and ORP record only

Sample Description

Sample ID: P2-57I Sample Date/Time: 9.28.21/14:29 Metals Date/Time: 9.28.21/17:29
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 3.97
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9.28.21/14:29

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

1 250 mL H₂SO₄ NO₂, NO₃

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166625421		Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>P2-SBI</u>	Date: <u>9.28.2021</u>	Water Level (ft): <u>37.73</u>	Time (WL): <u>1203</u>		
Physical Condition of Well: <u>Good</u>		Weather: <u>Sunny 85°F</u>			
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>63.93</u>	Water Column (ft): <u>26.15</u>	Well Volume (gal): <u>4.26</u>		
Start Purge: <u>1225</u>	End Purge: <u>1315</u>	Top of Pump (ft): <u>58</u>			
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>12.5</u>			
Evacuation Equipment: <u>Bladder Pump</u>		Purging Personnel: <u>D. HENTA</u>			
SmartTroll serial #: <u>230751</u>		LaMotte serial #: <u>26862</u>			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1315</u>	<u>clear</u>	<u>none</u>	<u>4.00</u>	<u>1402.3</u>	<u>0.21</u>	<u>22.45</u>	<u>221.2</u>	<u>4.85</u>	<u>37.82</u>	<u>250ml</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-SBI Sample Date/Time: 9.28.21/1315 Metals Date/Time: 9.28.21/1315
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 4.85
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 9.28.21/1315

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>600 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: D. HENTA
1 250 mL plastic
NO2/NO3

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-60I</u>	Date: <u>9-28-21</u>	Water Level (ft): <u>37.60</u>	Time (ML): <u>11:34</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>SUNNY 81°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>60.83</u>	Water Column (ft): <u>23.23</u>	Well Volume (gal): <u>3.79</u>
Start Purge: <u>11:42</u>	End Purge: <u>12:02</u>	Top of Pump (ft): <u>+55</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5 L</u>	
Evacuation Equipment: <u>SAMPLECO BUBBLER</u>		Purging Personnel: <u>J. WAGNER</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOG)	Pumping Rate
<u>12:02</u>	<u>clear</u>	<u>none</u>	<u>4.77</u>	<u>3072.5</u>	<u>0.22</u>	<u>21.82</u>	<u>360.</u>	<u>3.30</u>	<u>37.75</u>	<u>250 $\frac{L}{min}$</u>
		<u>SAMPLED @</u>		<u>12:02</u>						

Stabilization Criteria: pH \pm 0.1 S.U.; Conductivity \pm 5%; Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria); Turbidity \leq 5 NTU; Purge volume \geq 23L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-60I Sample Date/Time: 9-28-21/12:02 Metals Date/Time: 9-28-21/12:02
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 3.30
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9-28-21/12:02

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

1 250 mL H₂SO₄ NO₂, NO₃
 Signature: JW

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: P2-61E	Date: 9-27-21	Water Level (ft): 47.80	Time (WL): 1606
Physical Condition of Well: Good	Weather: 85°F		
Well Diameter (in): 2	Well Depth (ft): 26.03	Water Column (ft): 28.23	Well Volume (gal): 4.60
Start Purge: 1616	End Purge: 1643	Top of Pump (ft): 21	
Evacuation Method: Low-Flow		Volume Removed (L): 6.25	
Evacuation Equipment: Dredged clear-water bladder		Purging Personnel: D. Herrem	
SmarTroll serial #: 85075		LaMotte serial #: 26862	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (#BDOC)	Pumping Rate
1616 160	Clear	none	5.02	2,165.3	0.21	21.31	47.4	3.98	43.20	250 mL
(The remaining rows in the table are crossed out with a diagonal line.)										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-61E Sample Date/Time: 9-27-21/1643 Metals Date/Time: 9-27-21/1643
 Duplicate: Dup Date/Time: Final Turbidity NTU: 3.98
 Field Blank: Blank Date/Time: Turbidity Date/Time: 9-27-21/1643

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
1	250 mL plastic	--	Chloride, Fluoride, Sulfate
1	500 mL plastic	--	TDS
2	1 L plastic	HNO3	Radium 226/228

1 250 mL plastic H2SO4 353 NO2/NO3

Signature: D. Herrem

Low-Flow Test Report:

Test Date / Time: 2/1/2022 12:21:39 PM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWA-2I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.96 ft Total Depth: 66.96 ft Initial Depth to Water: 10.9 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 61.96 ft Pump Intake From TOC: 61.96 ft Estimated Total Volume Pumped: 3975 ml Flow Cell Volume: 90 ml Final Flow Rate: 70 ml/min Final Draw Down: 0.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear, 55

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/1/2022 12:21 PM	00:00	7.13 pH	23.63 °C	144.62 µS/cm	3.79 mg/L	2.48 NTU	115.9 mV	11.40 ft	150.00 ml/min
2/1/2022 12:26 PM	05:00	6.81 pH	17.82 °C	162.10 µS/cm	0.76 mg/L	1.19 NTU	103.2 mV	11.44 ft	70.00 ml/min
2/1/2022 12:31 PM	10:00	6.67 pH	16.80 °C	162.86 µS/cm	1.03 mg/L	1.25 NTU	74.4 mV	11.60 ft	60.00 ml/min
2/1/2022 12:36 PM	15:00	6.72 pH	17.46 °C	163.21 µS/cm	0.89 mg/L	2.70 NTU	75.6 mV	11.35 ft	60.00 ml/min
2/1/2022 12:41 PM	20:00	6.80 pH	16.48 °C	162.48 µS/cm	0.63 mg/L	3.00 NTU	75.5 mV	11.55 ft	75.00 ml/min
2/1/2022 12:46 PM	25:00	6.82 pH	17.37 °C	163.45 µS/cm	0.81 mg/L	3.95 NTU	74.4 mV	11.95 ft	100.00 ml/min
2/1/2022 12:51 PM	30:00	6.84 pH	17.70 °C	162.95 µS/cm	0.88 mg/L	4.24 NTU	73.6 mV	11.85 ft	70.00 ml/min
2/1/2022 12:56 PM	35:00	6.85 pH	17.18 °C	164.30 µS/cm	0.85 mg/L	4.30 NTU	72.7 mV	11.85 ft	70.00 ml/min
2/1/2022 1:01 PM	40:00	6.84 pH	17.28 °C	164.37 µS/cm	0.80 mg/L	3.00 NTU	71.5 mV	11.85 ft	70.00 ml/min
2/1/2022 1:06 PM	45:00	6.83 pH	17.32 °C	164.66 µS/cm	0.75 mg/L	2.71 NTU	70.5 mV	11.85 ft	70.00 ml/min
2/1/2022 1:11 PM	50:00	6.83 pH	17.33 °C	164.41 µS/cm	0.64 mg/L	2.25 NTU	69.0 mV	11.85 ft	70.00 ml/min

Samples

Sample ID:	Description:
BRGWA-2I	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 2:26:55 PM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWA-2S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.39 ft Total Depth: 47.39 ft Initial Depth to Water: 11.05 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 42.39 ft Pump Intake From TOC: 42.39 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/1/2022 2:26 PM	00:00	7.89 pH	22.67 °C	70.47 µS/cm	6.70 mg/L	2.82 NTU	59.7 mV	11.19 ft	300.00 ml/min
2/1/2022 2:31 PM	05:00	5.94 pH	18.39 °C	70.13 µS/cm	1.97 mg/L	0.95 NTU	88.1 mV	11.19 ft	300.00 ml/min
2/1/2022 2:36 PM	10:00	5.94 pH	18.17 °C	69.96 µS/cm	1.54 mg/L	1.10 NTU	90.3 mV	11.19 ft	300.00 ml/min
2/1/2022 2:41 PM	15:00	5.93 pH	18.08 °C	69.12 µS/cm	1.42 mg/L	1.12 NTU	91.8 mV	11.19 ft	300.00 ml/min
2/1/2022 2:46 PM	20:00	5.93 pH	18.02 °C	69.11 µS/cm	1.34 mg/L	0.87 NTU	91.7 mV	11.19 ft	300.00 ml/min
2/1/2022 2:51 PM	25:00	5.95 pH	17.99 °C	69.07 µS/cm	1.30 mg/L	0.81 NTU	90.6 mV	11.19 ft	300.00 ml/min

Samples

Sample ID:	Description:
BRGWA-2S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:25:58 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWA-5I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.82 ft Total Depth: 63.82 ft Initial Depth to Water: 11.07 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 58 ft Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 5950 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear, 38

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/1/2022 10:25 AM	00:00	7.10 pH	17.56 °C	156.11 µS/cm	7.57 mg/L	3.97 NTU	126.6 mV	11.22 ft	150.00 ml/min
2/1/2022 10:30 AM	05:00	6.36 pH	17.34 °C	165.38 µS/cm	4.96 mg/L	1.84 NTU	125.2 mV	11.18 ft	130.00 ml/min
2/1/2022 10:35 AM	10:00	6.35 pH	17.28 °C	157.11 µS/cm	5.59 mg/L	2.22 NTU	128.6 mV	11.20 ft	130.00 ml/min
2/1/2022 10:40 AM	15:00	6.37 pH	17.35 °C	161.84 µS/cm	5.72 mg/L	1.02 NTU	128.4 mV	11.20 ft	130.00 ml/min
2/1/2022 10:45 AM	20:00	6.40 pH	17.47 °C	144.61 µS/cm	5.96 mg/L	1.91 NTU	127.1 mV	11.18 ft	130.00 ml/min
2/1/2022 10:50 AM	25:00	6.38 pH	17.50 °C	165.67 µS/cm	5.37 mg/L	1.33 NTU	124.3 mV	11.18 ft	130.00 ml/min
2/1/2022 10:55 AM	30:00	6.37 pH	17.81 °C	165.13 µS/cm	5.29 mg/L	0.96 NTU	122.8 mV	11.18 ft	130.00 ml/min
2/1/2022 11:00 AM	35:00	6.37 pH	17.81 °C	166.01 µS/cm	5.48 mg/L	0.97 NTU	137.1 mV	11.19 ft	130.00 ml/min
2/1/2022 11:05 AM	40:00	6.38 pH	17.54 °C	165.50 µS/cm	5.50 mg/L	0.96 NTU	121.1 mV	11.18 ft	130.00 ml/min
2/1/2022 11:10 AM	45:00	6.38 pH	17.73 °C	166.38 µS/cm	5.51 mg/L	0.95 NTU	119.1 mV	11.18 ft	130.00 ml/min

Samples

Sample ID:	Description:
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BRGWA-5I	
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:07:59 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWA-5S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.01 ft Total Depth: 43.01 ft Initial Depth to Water: 11.19 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 38 ft Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4750 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/1/2022 9:07 AM	00:00	7.52 pH	13.84 °C	169.43 µS/cm	8.08 mg/L	0.67 NTU	169.4 mV	11.25 ft	200.00 ml/min
2/1/2022 9:12 AM	05:00	6.36 pH	16.20 °C	152.26 µS/cm	2.36 mg/L	1.90 NTU	152.3 mV	11.20 ft	150.00 ml/min
2/1/2022 9:17 AM	10:00	6.35 pH	16.75 °C	156.85 µS/cm	2.20 mg/L	1.87 NTU	146.8 mV	11.20 ft	150.00 ml/min
2/1/2022 9:22 AM	15:00	6.31 pH	16.80 °C	160.26 µS/cm	2.10 mg/L	4.08 NTU	144.4 mV	11.20 ft	150.00 ml/min
2/1/2022 9:27 AM	20:00	6.40 pH	16.95 °C	164.31 µS/cm	2.13 mg/L	2.43 NTU	136.5 mV	11.20 ft	150.00 ml/min
2/1/2022 9:32 AM	25:00	6.40 pH	16.47 °C	164.91 µS/cm	2.07 mg/L	3.17 NTU	133.1 mV	11.21 ft	150.00 ml/min
2/1/2022 9:37 AM	30:00	6.39 pH	16.51 °C	165.58 µS/cm	2.16 mg/L	3.15 NTU	129.3 mV	11.21 ft	150.00 ml/min

Samples

Sample ID:	Description:
BRGWA-5S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:25:04 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWA-6S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.9 ft Total Depth: 52.9 ft Initial Depth to Water: 24.3 ft	Pump Type: dedicated bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 47 ft Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.87 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/1/2022 9:25 AM	00:00	6.77 pH	13.71 °C	60.49 µS/cm	7.50 mg/L	3.77 NTU	117.4 mV	24.30 ft	250.00 ml/min
2/1/2022 9:30 AM	05:00	6.45 pH	17.00 °C	62.18 µS/cm	7.05 mg/L	2.82 NTU	98.1 mV	25.05 ft	250.00 ml/min
2/1/2022 9:35 AM	10:00	6.50 pH	17.21 °C	61.86 µS/cm	6.97 mg/L	1.87 NTU	94.8 mV	25.10 ft	250.00 ml/min
2/1/2022 9:40 AM	15:00	6.53 pH	17.40 °C	62.08 µS/cm	6.96 mg/L	2.65 NTU	91.9 mV	25.15 ft	250.00 ml/min
2/1/2022 9:45 AM	20:00	6.54 pH	17.68 °C	62.36 µS/cm	6.89 mg/L	2.74 NTU	90.3 mV	25.17 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWA-6S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:59:11 AM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWA-12I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.54 ft Total Depth: 80.54 ft Initial Depth to Water: 49.89 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 75.54 ft Pump Intake From TOC: 75.54 ft Estimated Total Volume Pumped: 12840 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 8.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/1/2022 10:59 AM	00:00	6.33 pH	18.33 °C	168.61 µS/cm	3.48 mg/L	1.89 NTU	105.1 mV	49.89 ft	160.00 ml/min
2/1/2022 11:03 AM	04:00	6.30 pH	18.17 °C	170.45 µS/cm	1.75 mg/L	1.93 NTU	104.5 mV	51.73 ft	160.00 ml/min
2/1/2022 11:07 AM	08:00	6.33 pH	18.13 °C	162.93 µS/cm	1.79 mg/L	2.24 NTU	102.9 mV	52.18 ft	160.00 ml/min
2/1/2022 11:11 AM	12:00	6.35 pH	18.37 °C	158.68 µS/cm	1.73 mg/L	2.57 NTU	102.5 mV	52.66 ft	160.00 ml/min
2/1/2022 11:15 AM	16:00	6.36 pH	18.42 °C	156.24 µS/cm	1.95 mg/L	2.25 NTU	101.5 mV	53.16 ft	160.00 ml/min
2/1/2022 11:19 AM	20:00	6.36 pH	18.58 °C	155.43 µS/cm	1.95 mg/L	2.30 NTU	101.1 mV	53.72 ft	160.00 ml/min
2/1/2022 11:23 AM	24:00	6.37 pH	18.51 °C	153.85 µS/cm	2.03 mg/L	2.33 NTU	101.0 mV	54.13 ft	160.00 ml/min
2/1/2022 11:27 AM	28:00	6.39 pH	18.60 °C	152.67 µS/cm	2.16 mg/L	2.01 NTU	100.3 mV	54.57 ft	160.00 ml/min
2/1/2022 11:31 AM	32:00	6.38 pH	18.69 °C	151.10 µS/cm	2.54 mg/L	3.04 NTU	100.7 mV	54.90 ft	160.00 ml/min
2/1/2022 11:35 AM	36:00	6.38 pH	18.78 °C	149.35 µS/cm	2.85 mg/L	2.77 NTU	100.5 mV	55.21 ft	160.00 ml/min
2/1/2022 11:39 AM	40:00	6.39 pH	18.91 °C	147.51 µS/cm	3.06 mg/L	1.56 NTU	99.7 mV	55.80 ft	160.00 ml/min
2/1/2022 11:43 AM	44:00	6.38 pH	18.83 °C	145.86 µS/cm	3.22 mg/L	2.20 NTU	100.0 mV	56.20 ft	160.00 ml/min
2/1/2022 11:47 AM	48:00	6.37 pH	18.93 °C	143.97 µS/cm	3.50 mg/L	1.56 NTU	99.9 mV	56.51 ft	160.00 ml/min
2/1/2022 11:51 AM	52:00	6.36 pH	18.86 °C	141.16 µS/cm	3.84 mg/L	1.83 NTU	100.6 mV	56.81 ft	160.00 ml/min

2/1/2022 11:55 AM	56:00	6.36 pH	18.95 °C	89.05 µS/cm	4.08 mg/L	1.85 NTU	99.8 mV	57.09 ft	160.00 ml/min
2/1/2022 11:59 AM	01:00:00	6.36 pH	18.98 °C	137.94 µS/cm	4.38 mg/L	1.52 NTU	99.4 mV	57.33 ft	160.00 ml/min
2/1/2022 12:03 PM	01:04:00	6.38 pH	19.06 °C	136.61 µS/cm	4.64 mg/L	2.52 NTU	99.6 mV	57.55 ft	160.00 ml/min
2/1/2022 12:07 PM	01:08:00	6.39 pH	19.13 °C	136.63 µS/cm	5.00 mg/L	2.05 NTU	99.3 mV	57.81 ft	160.00 ml/min
2/1/2022 12:11 PM	01:12:00	6.36 pH	19.31 °C	138.92 µS/cm	5.07 mg/L	2.45 NTU	100.1 mV	58.02 ft	110.00 ml/min
2/1/2022 12:15 PM	01:16:00	6.40 pH	19.62 °C	136.59 µS/cm	5.19 mg/L	1.89 NTU	99.9 mV	58.15 ft	110.00 ml/min
2/1/2022 12:19 PM	01:20:00	6.40 pH	19.10 °C	138.65 µS/cm	5.18 mg/L	2.43 NTU	100.4 mV	58.19 ft	110.00 ml/min

Samples

Sample ID:	Description:
BRGWA-12I	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/1/2022 1:09:57 PM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWA-12S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.01 ft Total Depth: 61.01 ft Initial Depth to Water: 50.06 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 55.01 ft Pump Intake From TOC: 55.01 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/1/2022 1:09 PM	00:00	5.53 pH	19.53 °C	65.22 µS/cm	7.10 mg/L	1.91 NTU	100.9 mV	50.06 ft	150.00 ml/min
2/1/2022 1:13 PM	04:00	5.67 pH	19.62 °C	70.58 µS/cm	7.38 mg/L	2.15 NTU	100.6 mV	50.37 ft	150.00 ml/min
2/1/2022 1:17 PM	08:00	5.79 pH	19.54 °C	79.28 µS/cm	7.45 mg/L	1.97 NTU	101.9 mV	50.37 ft	150.00 ml/min
2/1/2022 1:21 PM	12:00	5.86 pH	19.66 °C	82.17 µS/cm	7.64 mg/L	2.17 NTU	102.6 mV	50.37 ft	150.00 ml/min
2/1/2022 1:25 PM	16:00	5.86 pH	19.73 °C	82.71 µS/cm	7.68 mg/L	2.10 NTU	103.7 mV	50.37 ft	150.00 ml/min
2/1/2022 1:29 PM	20:00	5.89 pH	19.66 °C	86.02 µS/cm	7.68 mg/L	2.42 NTU	102.7 mV	50.37 ft	150.00 ml/min
2/1/2022 1:33 PM	24:00	5.88 pH	19.72 °C	81.82 µS/cm	7.70 mg/L	2.19 NTU	102.8 mV	50.37 ft	150.00 ml/min
2/1/2022 1:37 PM	28:00	5.86 pH	19.75 °C	80.28 µS/cm	7.69 mg/L	2.02 NTU	102.9 mV	50.37 ft	150.00 ml/min
2/1/2022 1:41 PM	32:00	5.86 pH	19.83 °C	79.17 µS/cm	7.72 mg/L	1.57 NTU	103.4 mV	50.37 ft	150.00 ml/min
2/1/2022 1:45 PM	36:00	5.83 pH	19.67 °C	78.49 µS/cm	7.72 mg/L	1.85 NTU	104.2 mV	50.37 ft	150.00 ml/min
2/1/2022 1:49 PM	40:00	5.83 pH	19.84 °C	77.60 µS/cm	7.69 mg/L	1.81 NTU	104.6 mV	50.37 ft	150.00 ml/min

Samples

Sample ID:	Description:
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BRGWA-12S

Metals, TDS, Inorganics, Alkalinity, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:23:01 AM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWA-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.80 ft Total Depth: 43.80 ft Initial Depth to Water: 38.64 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 33.86 ft Pump Intake From TOC: 33.86 ft Estimated Total Volume Pumped: 6480 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/1/2022 9:23 AM	00:00	5.65 pH	16.03 °C	166.45 µS/cm	3.20 mg/L	4.79 NTU	109.9 mV	38.64 ft	180.00 ml/min
2/1/2022 9:27 AM	04:00	5.64 pH	15.78 °C	162.77 µS/cm	3.55 mg/L	4.33 NTU	108.9 mV	38.88 ft	180.00 ml/min
2/1/2022 9:31 AM	08:00	5.64 pH	15.66 °C	162.37 µS/cm	3.75 mg/L	4.57 NTU	108.2 mV	38.88 ft	180.00 ml/min
2/1/2022 9:35 AM	12:00	5.64 pH	15.71 °C	162.19 µS/cm	3.83 mg/L	2.17 NTU	108.0 mV	38.88 ft	180.00 ml/min
2/1/2022 9:39 AM	16:00	5.63 pH	15.60 °C	162.15 µS/cm	3.95 mg/L	2.42 NTU	108.3 mV	38.88 ft	180.00 ml/min
2/1/2022 9:43 AM	20:00	5.63 pH	15.68 °C	162.41 µS/cm	4.08 mg/L	4.23 NTU	108.2 mV	38.88 ft	180.00 ml/min
2/1/2022 9:47 AM	24:00	5.64 pH	15.52 °C	161.72 µS/cm	4.17 mg/L	4.00 NTU	108.4 mV	38.88 ft	180.00 ml/min
2/1/2022 9:51 AM	28:00	5.65 pH	15.65 °C	161.87 µS/cm	4.17 mg/L	3.88 NTU	108.6 mV	38.88 ft	180.00 ml/min
2/1/2022 9:55 AM	32:00	5.65 pH	15.60 °C	162.01 µS/cm	4.24 mg/L	2.30 NTU	109.5 mV	38.88 ft	180.00 ml/min
2/1/2022 9:59 AM	36:00	5.65 pH	15.75 °C	162.76 µS/cm	4.32 mg/L	2.38 NTU	109.6 mV	38.88 ft	180.00 ml/min

Samples

Sample ID:	Description:
BRGWA-23S	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/1/2022 2:43:54 PM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-17S Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 4.04 ft Total Depth: 9.04 ft Initial Depth to Water: 5.94 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 6.2 ft Pump Intake From TOC: 6.2 ft Estimated Total Volume Pumped: 7700 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/1/2022 2:43 PM	00:00	6.43 pH	16.50 °C	488.16 µS/cm	7.45 mg/L	14.60 NTU	111.6 mV	5.94 ft	70.00 ml/min
2/1/2022 2:48 PM	05:00	6.43 pH	16.29 °C	319.92 µS/cm	7.72 mg/L	4.17 NTU	121.4 mV	6.09 ft	70.00 ml/min
2/1/2022 2:53 PM	10:00	6.44 pH	16.11 °C	504.72 µS/cm	7.84 mg/L	102.00 NTU	102.6 mV	6.15 ft	200.00 ml/min
2/1/2022 2:58 PM	15:00	6.35 pH	16.06 °C	499.23 µS/cm	2.35 mg/L	125.00 NTU	114.9 mV	6.15 ft	200.00 ml/min
2/1/2022 3:03 PM	20:00	6.40 pH	15.93 °C	499.95 µS/cm	1.99 mg/L	35.10 NTU	99.1 mV	6.15 ft	200.00 ml/min
2/1/2022 3:08 PM	25:00	6.39 pH	15.79 °C	494.18 µS/cm	1.88 mg/L	25.70 NTU	109.4 mV	6.15 ft	200.00 ml/min
2/1/2022 3:13 PM	30:00	6.39 pH	15.66 °C	498.99 µS/cm	1.83 mg/L	12.20 NTU	94.9 mV	6.19 ft	200.00 ml/min
2/1/2022 3:18 PM	35:00	6.39 pH	15.61 °C	499.70 µS/cm	1.81 mg/L	8.10 NTU	92.6 mV	6.19 ft	200.00 ml/min
2/1/2022 3:23 PM	40:00	6.39 pH	15.61 °C	498.26 µS/cm	1.81 mg/L	4.06 NTU	102.8 mV	6.19 ft	200.00 ml/min
2/1/2022 3:28 PM	45:00	6.39 pH	15.53 °C	498.24 µS/cm	1.79 mg/L	3.20 NTU	90.6 mV	6.19 ft	200.00 ml/min

Samples

Sample ID:	Description:
BRGWC-17S	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 2:19:14 PM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWC-25I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.41 ft Total Depth: 24.41 ft Initial Depth to Water: 9.27 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 20.41 ft Pump Intake From TOC: 20.41 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 2:19 PM	00:00	6.27 pH	17.53 °C	489.16 µS/cm	0.28 mg/L	14.10 NTU	34.1 mV	9.27 ft	160.00 ml/min
2/2/2022 2:23 PM	04:00	6.26 pH	17.38 °C	491.94 µS/cm	0.26 mg/L	7.60 NTU	38.4 mV	9.36 ft	160.00 ml/min
2/2/2022 2:27 PM	08:00	6.24 pH	17.37 °C	490.19 µS/cm	0.26 mg/L	7.06 NTU	42.0 mV	9.36 ft	160.00 ml/min
2/2/2022 2:31 PM	12:00	6.24 pH	17.40 °C	492.73 µS/cm	0.27 mg/L	7.57 NTU	45.3 mV	9.36 ft	160.00 ml/min
2/2/2022 2:35 PM	16:00	6.24 pH	17.44 °C	493.78 µS/cm	0.27 mg/L	6.59 NTU	48.0 mV	9.36 ft	160.00 ml/min
2/2/2022 2:39 PM	20:00	6.23 pH	17.50 °C	493.83 µS/cm	0.27 mg/L	3.97 NTU	50.4 mV	9.36 ft	160.00 ml/min
2/2/2022 2:43 PM	24:00	6.23 pH	17.51 °C	490.66 µS/cm	0.26 mg/L	2.74 NTU	52.6 mV	9.36 ft	160.00 ml/min

Samples

Sample ID:	Description:
BRGWC-25I	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/4/2022 8:23:12 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWC-271 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.41 ft Total Depth: 33.41 ft Initial Depth to Water: 8.28 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 28.41 ft Pump Intake From TOC: 28.41 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/4/2022 8:23 AM	00:00	6.77 pH	18.11 °C	422.82 µS/cm	6.06 mg/L	1.53 NTU	86.4 mV	8.35 ft	200.00 ml/min
2/4/2022 8:28 AM	05:00	5.92 pH	18.26 °C	481.76 µS/cm	1.65 mg/L	0.92 NTU	136.3 mV	8.32 ft	200.00 ml/min
2/4/2022 8:33 AM	10:00	5.90 pH	18.36 °C	488.38 µS/cm	1.08 mg/L	0.73 NTU	169.1 mV	8.36 ft	200.00 ml/min
2/4/2022 8:38 AM	15:00	5.92 pH	18.43 °C	487.85 µS/cm	0.86 mg/L	0.50 NTU	143.9 mV	8.32 ft	200.00 ml/min
2/4/2022 8:43 AM	20:00	5.96 pH	18.48 °C	491.17 µS/cm	0.79 mg/L	0.52 NTU	171.1 mV	8.33 ft	200.00 ml/min
2/4/2022 8:48 AM	25:00	5.97 pH	18.50 °C	490.87 µS/cm	0.75 mg/L	0.44 NTU	171.9 mV	8.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
BRGWC-271	

Low-Flow Test Report:

Test Date / Time: 2/3/2022 4:30:55 PM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWC-29I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.63 ft Total Depth: 23.63 ft Initial Depth to Water: 10.1 ft	Pump Type: Bladder MP-50 Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 18.63 ft Pump Intake From TOC: 18.63 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/3/2022 4:30 PM	00:00	2.98 pH	19.59 °C	811.09 µS/cm	6.13 mg/L	0.89 NTU	324.3 mV	10.22 ft	300.00 ml/min
2/3/2022 4:35 PM	05:00	3.84 pH	19.33 °C	661.65 µS/cm	0.85 mg/L	0.66 NTU	267.5 mV	10.20 ft	300.00 ml/min
2/3/2022 4:40 PM	10:00	4.14 pH	19.33 °C	650.39 µS/cm	0.47 mg/L	0.69 NTU	236.9 mV	10.20 ft	300.00 ml/min
2/3/2022 4:45 PM	15:00	4.20 pH	19.36 °C	650.44 µS/cm	0.55 mg/L	0.84 NTU	230.8 mV	10.20 ft	300.00 ml/min
2/3/2022 4:50 PM	20:00	4.22 pH	19.35 °C	651.09 µS/cm	0.38 mg/L	0.62 NTU	228.6 mV	10.20 ft	300.00 ml/min
2/3/2022 4:55 PM	25:00	4.23 pH	19.37 °C	650.78 µS/cm	0.46 mg/L	0.51 NTU	228.4 mV	10.20 ft	300.00 ml/min

Samples

Sample ID:	Description:
BRGWC-29I	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 10:16:39 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWC-30I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.35 ft Total Depth: 22.35 ft Initial Depth to Water: 4.55 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 18 ft Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 39000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/2/2022 10:16 AM	00:00	6.23 pH	12.81 °C	1,493.5 µS/cm	8.30 mg/L	824.00 NTU	156.2 mV	4.82 ft	300.00 ml/min
2/2/2022 10:21 AM	05:00	6.32 pH	16.31 °C	1,471.8 µS/cm	1.01 mg/L	977.00 NTU	101.8 mV	4.85 ft	300.00 ml/min
2/2/2022 10:26 AM	10:00	6.35 pH	16.92 °C	1,490.2 µS/cm	1.13 mg/L	817.00 NTU	98.3 mV	4.85 ft	300.00 ml/min
2/2/2022 10:31 AM	15:00	6.35 pH	17.08 °C	1,496.4 µS/cm	0.94 mg/L	544.00 NTU	96.7 mV	4.82 ft	300.00 ml/min
2/2/2022 10:36 AM	20:00	6.34 pH	17.23 °C	1,504.6 µS/cm	0.68 mg/L	223.00 NTU	94.2 mV	4.82 ft	300.00 ml/min
2/2/2022 10:41 AM	25:00	6.35 pH	17.32 °C	1,499.2 µS/cm	0.77 mg/L	78.50 NTU	92.4 mV	4.82 ft	300.00 ml/min
2/2/2022 10:46 AM	30:00	6.35 pH	17.37 °C	1,504.5 µS/cm	0.72 mg/L	36.10 NTU	79.8 mV	4.84 ft	300.00 ml/min
2/2/2022 10:51 AM	35:00	6.35 pH	17.40 °C	1,498.6 µS/cm	0.76 mg/L	22.40 NTU	91.2 mV	4.82 ft	300.00 ml/min
2/2/2022 10:56 AM	40:00	6.35 pH	17.46 °C	1,501.9 µS/cm	0.58 mg/L	19.20 NTU	92.2 mV	4.85 ft	300.00 ml/min
2/2/2022 11:01 AM	45:00	6.35 pH	17.46 °C	1,498.2 µS/cm	0.57 mg/L	30.20 NTU	90.0 mV	4.85 ft	300.00 ml/min
2/2/2022 11:06 AM	50:00	6.35 pH	17.46 °C	1,498.4 µS/cm	0.64 mg/L	16.50 NTU	87.5 mV	4.85 ft	300.00 ml/min
2/2/2022 11:11 AM	55:00	6.35 pH	17.53 °C	1,506.4 µS/cm	0.61 mg/L	25.00 NTU	76.9 mV	4.81 ft	300.00 ml/min
2/2/2022 11:16 AM	01:00:00	6.35 pH	17.54 °C	1,499.8 µS/cm	0.58 mg/L	18.00 NTU	86.2 mV	4.81 ft	300.00 ml/min

2/2/2022 11:21 AM	01:05:00	6.34 pH	17.54 °C	1,497.8 µS/cm	0.56 mg/L	15.10 NTU	84.5 mV	4.85 ft	300.00 ml/min
2/2/2022 11:26 AM	01:10:00	6.35 pH	17.54 °C	1,510.6 µS/cm	0.64 mg/L	10.20 NTU	74.0 mV	4.82 ft	300.00 ml/min
2/2/2022 11:31 AM	01:15:00	6.35 pH	17.59 °C	1,498.0 µS/cm	0.59 mg/L	10.50 NTU	82.2 mV	4.82 ft	300.00 ml/min
2/2/2022 11:36 AM	01:20:00	6.35 pH	17.60 °C	1,498.5 µS/cm	0.57 mg/L	10.80 NTU	83.5 mV	4.80 ft	300.00 ml/min
2/2/2022 11:41 AM	01:25:00	6.35 pH	17.65 °C	1,508.9 µS/cm	0.53 mg/L	10.00 NTU	72.9 mV	4.80 ft	300.00 ml/min
2/2/2022 11:46 AM	01:30:00	6.34 pH	17.68 °C	1,497.1 µS/cm	0.46 mg/L	8.20 NTU	80.1 mV	4.80 ft	300.00 ml/min
2/2/2022 11:51 AM	01:35:00	6.34 pH	17.68 °C	1,498.8 µS/cm	0.39 mg/L	6.88 NTU	80.8 mV	4.80 ft	300.00 ml/min
2/2/2022 11:56 AM	01:40:00	6.34 pH	17.63 °C	1,496.8 µS/cm	0.46 mg/L	5.23 NTU	81.9 mV	4.83 ft	300.00 ml/min
2/2/2022 12:01 PM	01:45:00	6.34 pH	17.68 °C	1,505.3 µS/cm	0.46 mg/L	8.76 NTU	70.7 mV	4.83 ft	300.00 ml/min
2/2/2022 12:06 PM	01:50:00	6.34 pH	17.68 °C	1,500.1 µS/cm	0.86 mg/L	9.55 NTU	79.6 mV	4.80 ft	300.00 ml/min
2/2/2022 12:11 PM	01:55:00	6.34 pH	17.65 °C	1,497.8 µS/cm	0.45 mg/L	10.40 NTU	79.2 mV	4.83 ft	300.00 ml/min
2/2/2022 12:16 PM	02:00:00	6.34 pH	17.66 °C	1,515.3 µS/cm	0.44 mg/L	6.99 NTU	70.6 mV	4.83 ft	300.00 ml/min
2/2/2022 12:21 PM	02:05:00	6.34 pH	17.66 °C	1,507.7 µS/cm	0.41 mg/L	6.23 NTU	69.5 mV	4.82 ft	300.00 ml/min
2/2/2022 12:26 PM	02:10:00	6.34 pH	17.64 °C	1,498.8 µS/cm	0.39 mg/L	4.87 NTU	78.3 mV	4.82 ft	300.00 ml/min

Samples

Sample ID:	Description:
BRGWC-30I	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 1:21:53 PM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWC-32S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38 ft Total Depth: 48 ft Initial Depth to Water: 39.11 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 43 ft Pump Intake From TOC: 43 ft Estimated Total Volume Pumped: 21500 ml Flow Cell Volume: 90 ml Final Flow Rate: 350 ml/min Final Draw Down: 0.44 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/2/2022 1:21 PM	00:00	6.31 pH	15.98 °C	532.08 µS/cm	8.04 mg/L	5.26 NTU	104.5 mV	39.35 ft	150.00 ml/min
2/2/2022 1:26 PM	05:00	5.91 pH	17.81 °C	576.41 µS/cm	5.94 mg/L	3.33 NTU	133.2 mV	39.55 ft	200.00 ml/min
2/2/2022 1:31 PM	10:00	5.93 pH	18.10 °C	596.11 µS/cm	5.34 mg/L	17.90 NTU	134.5 mV	39.55 ft	200.00 ml/min
2/2/2022 1:36 PM	15:00	5.96 pH	18.08 °C	602.92 µS/cm	5.30 mg/L	20.20 NTU	132.9 mV	39.55 ft	200.00 ml/min
2/2/2022 1:41 PM	20:00	5.96 pH	18.00 °C	604.02 µS/cm	4.69 mg/L	15.50 NTU	111.3 mV	39.55 ft	200.00 ml/min
2/2/2022 1:46 PM	25:00	5.97 pH	18.04 °C	614.18 µS/cm	4.40 mg/L	7.93 NTU	130.2 mV	39.55 ft	200.00 ml/min
2/2/2022 1:51 PM	30:00	5.98 pH	17.99 °C	613.95 µS/cm	4.20 mg/L	4.39 NTU	109.6 mV	39.55 ft	200.00 ml/min
2/2/2022 1:56 PM	35:00	5.98 pH	17.91 °C	620.89 µS/cm	4.09 mg/L	3.01 NTU	128.7 mV	39.55 ft	200.00 ml/min
2/2/2022 2:01 PM	40:00	5.98 pH	17.88 °C	620.30 µS/cm	4.00 mg/L	1.76 NTU	108.7 mV	39.55 ft	200.00 ml/min
2/2/2022 2:06 PM	45:00	5.99 pH	17.95 °C	618.79 µS/cm	3.94 mg/L	1.87 NTU	107.3 mV	39.55 ft	200.00 ml/min
2/2/2022 2:11 PM	50:00	5.99 pH	18.01 °C	622.05 µS/cm	3.89 mg/L	1.18 NTU	126.8 mV	39.55 ft	200.00 ml/min
2/2/2022 2:16 PM	55:00	5.99 pH	17.99 °C	619.73 µS/cm	3.87 mg/L	0.65 NTU	107.6 mV	39.55 ft	200.00 ml/min
2/2/2022 2:21 PM	01:00:00	5.97 pH	18.05 °C	625.46 µS/cm	3.74 mg/L	2.11 NTU	126.9 mV	39.55 ft	200.00 ml/min

2/2/2022 2:26 PM	01:05:00	5.98 pH	18.26 °C	618.01 µS/cm	3.74 mg/L	7.48 NTU	108.2 mV	39.55 ft	350.00 ml/min
2/2/2022 2:31 PM	01:10:00	5.99 pH	18.26 °C	627.33 µS/cm	3.45 mg/L	5.87 NTU	126.6 mV	39.55 ft	350.00 ml/min
2/2/2022 2:36 PM	01:15:00	5.99 pH	18.30 °C	625.82 µS/cm	3.38 mg/L	3.74 NTU	106.8 mV	39.55 ft	350.00 ml/min
2/2/2022 2:41 PM	01:20:00	5.99 pH	18.30 °C	625.88 µS/cm	3.34 mg/L	2.13 NTU	105.8 mV	39.55 ft	350.00 ml/min
2/2/2022 2:46 PM	01:25:00	6.00 pH	18.28 °C	628.19 µS/cm	3.44 mg/L	2.25 NTU	124.8 mV	39.55 ft	350.00 ml/min
2/2/2022 2:51 PM	01:30:00	5.99 pH	18.30 °C	624.75 µS/cm	3.45 mg/L	2.30 NTU	106.1 mV	39.55 ft	350.00 ml/min

Samples

Sample ID:	Description:
BRGWC-32S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:42:05 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-33S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.66 ft Total Depth: 31.66 ft Initial Depth to Water: 8.94 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 26 ft Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/1/2022 10:42 AM	00:00	4.72 pH	17.18 °C	328.24 µS/cm	1.27 mg/L	6.09 NTU	112.6 mV	8.94 ft	250.00 ml/min
2/1/2022 10:47 AM	05:00	4.82 pH	19.01 °C	333.97 µS/cm	0.19 mg/L	4.96 NTU	150.1 mV	8.97 ft	250.00 ml/min
2/1/2022 10:52 AM	10:00	4.82 pH	18.97 °C	332.43 µS/cm	0.08 mg/L	2.17 NTU	213.4 mV	9.00 ft	250.00 ml/min
2/1/2022 10:57 AM	15:00	4.82 pH	19.05 °C	334.10 µS/cm	0.08 mg/L	2.24 NTU	182.1 mV	9.00 ft	250.00 ml/min
2/1/2022 11:02 AM	20:00	4.82 pH	19.09 °C	333.94 µS/cm	0.07 mg/L	0.96 NTU	190.6 mV	9.00 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-33S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 12:24:17 PM

Project: Plant Branch

Operator Name: Brian Steele

Location Name: BRGWC-34S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.64 ft Total Depth: 52.64 ft Initial Depth to Water: 2.63 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 48 ft Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 90 ml Final Flow Rate: 350 ml/min Final Draw Down: 0.0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Sunny 60F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 12:24 PM	00:00	5.83 pH	18.75 °C	605.80 µS/cm	1.50 mg/L	1.40 NTU	72.3 mV	2.63 ft	350.00 ml/min
2/1/2022 12:29 PM	05:00	5.86 pH	18.86 °C	625.18 µS/cm	0.31 mg/L	1.32 NTU	70.6 mV	2.63 ft	350.00 ml/min
2/1/2022 12:34 PM	10:00	5.87 pH	18.88 °C	620.36 µS/cm	0.21 mg/L	1.34 NTU	68.6 mV	2.63 ft	350.00 ml/min
2/1/2022 12:39 PM	15:00	5.87 pH	19.00 °C	617.89 µS/cm	0.18 mg/L	1.08 NTU	67.5 mV	2.63 ft	350.00 ml/min
2/1/2022 12:44 PM	20:00	5.87 pH	19.03 °C	618.04 µS/cm	0.17 mg/L	0.93 NTU	75.5 mV	2.63 ft	350.00 ml/min
2/1/2022 12:49 PM	25:00	5.87 pH	19.05 °C	616.02 µS/cm	0.16 mg/L	1.27 NTU	66.5 mV	2.63 ft	350.00 ml/min
2/1/2022 12:54 PM	30:00	5.87 pH	19.05 °C	614.12 µS/cm	0.15 mg/L	0.67 NTU	74.5 mV	2.63 ft	350.00 ml/min

Samples

Sample ID:	Description:
BRGWC-34S	Dup-1

Low-Flow Test Report:

Test Date / Time: 2/1/2022 1:38:43 PM

Project: Plant Branch

Operator Name: Brian Steele

Location Name: BRGWC-35S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.34 ft Total Depth: 35.34 ft Initial Depth to Water: 1.88 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 30.34 ft Pump Intake From TOC: 30.34 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Sunny 65F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 1:38 PM	00:00	6.09 pH	19.77 °C	607.96 µS/cm	3.31 mg/L	2.05 NTU	70.8 mV	1.89 ft	250.00 ml/min
2/1/2022 1:43 PM	05:00	6.03 pH	18.03 °C	655.03 µS/cm	0.65 mg/L	1.75 NTU	72.8 mV	1.89 ft	250.00 ml/min
2/1/2022 1:48 PM	10:00	6.03 pH	18.03 °C	657.52 µS/cm	0.28 mg/L	1.26 NTU	80.5 mV	1.89 ft	250.00 ml/min
2/1/2022 1:53 PM	15:00	6.03 pH	18.12 °C	659.27 µS/cm	0.23 mg/L	0.82 NTU	71.5 mV	1.89 ft	250.00 ml/min
2/1/2022 1:58 PM	20:00	6.04 pH	18.08 °C	662.89 µS/cm	0.22 mg/L	0.66 NTU	79.1 mV	1.89 ft	250.00 ml/min
2/1/2022 2:03 PM	25:00	6.04 pH	18.01 °C	664.18 µS/cm	0.21 mg/L	1.18 NTU	70.3 mV	1.89 ft	250.00 ml/min
2/1/2022 2:08 PM	30:00	6.04 pH	18.11 °C	661.81 µS/cm	0.21 mg/L	0.87 NTU	69.6 mV	1.89 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-35S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 1:03:19 PM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: BRGWC-36S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.02 ft Total Depth: 34.02 ft Initial Depth to Water: 3.73 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 29 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/1/2022 1:03 PM	00:00	5.64 pH	13.99 °C	600.63 µS/cm	2.72 mg/L	2.62 NTU	142.2 mV	3.73 ft	250.00 ml/min
2/1/2022 1:08 PM	05:00	5.65 pH	14.57 °C	601.00 µS/cm	2.55 mg/L	2.81 NTU	129.2 mV	3.80 ft	250.00 ml/min
2/1/2022 1:13 PM	10:00	5.65 pH	14.77 °C	597.08 µS/cm	2.51 mg/L	1.44 NTU	143.2 mV	3.80 ft	250.00 ml/min
2/1/2022 1:18 PM	15:00	5.66 pH	14.94 °C	596.37 µS/cm	2.48 mg/L	0.92 NTU	119.2 mV	3.80 ft	250.00 ml/min
2/1/2022 1:23 PM	20:00	5.65 pH	14.94 °C	596.52 µS/cm	2.47 mg/L	1.42 NTU	131.8 mV	3.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
BRGWC-36S	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 8:42:14 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: BRGWC-37S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.73 ft Total Depth: 68.73 ft Initial Depth to Water: 52.1 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 63.73 ft Pump Intake From TOC: 63.73 ft Estimated Total Volume Pumped: 4125 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/2/2022 8:42 AM	00:00	7.55 pH	11.48 °C	60.47 µS/cm	10.13 mg/L	2.07 NTU	155.1 mV	52.34 ft	100.00 ml/min
2/2/2022 8:47 AM	05:00	6.01 pH	15.39 °C	57.75 µS/cm	8.37 mg/L	0.48 NTU	151.3 mV	52.52 ft	100.00 ml/min
2/2/2022 8:52 AM	10:00	5.82 pH	16.39 °C	56.51 µS/cm	8.08 mg/L	0.46 NTU	150.4 mV	52.55 ft	125.00 ml/min
2/2/2022 8:57 AM	15:00	5.80 pH	16.74 °C	56.07 µS/cm	7.99 mg/L	0.72 NTU	147.7 mV	52.55 ft	125.00 ml/min
2/2/2022 9:02 AM	20:00	5.80 pH	16.34 °C	55.78 µS/cm	7.98 mg/L	0.77 NTU	146.4 mV	52.55 ft	125.00 ml/min
2/2/2022 9:07 AM	25:00	5.80 pH	16.56 °C	55.65 µS/cm	7.98 mg/L	0.27 NTU	144.0 mV	52.54 ft	125.00 ml/min
2/2/2022 9:12 AM	30:00	5.80 pH	16.88 °C	55.37 µS/cm	7.97 mg/L	0.35 NTU	143.2 mV	52.57 ft	125.00 ml/min
2/2/2022 9:17 AM	35:00	5.80 pH	16.87 °C	55.39 µS/cm	7.99 mg/L	0.32 NTU	142.0 mV	52.58 ft	125.00 ml/min

Samples

Sample ID:	Description:
BRGWC-37S	

Low-Flow Test Report:

Test Date / Time: 2/1/2022 2:43:41 PM

Project: Plant Branch

Operator Name: Joe Booth

<p>Location Name: BRGWC-38S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.66 ft Total Depth: 43.66 ft Initial Depth to Water: 21.05 ft</p>	<p>Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 38.66 ft Pump Intake From TOC: 38.66 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.69 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 843285</p>
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/1/2022 2:43 PM	00:00	4.05 pH	18.96 °C	860.06 µS/cm	1.19 mg/L	21.10 NTU	136.0 mV	21.05 ft	180.00 ml/min
2/1/2022 2:47 PM	04:00	4.06 pH	18.73 °C	761.24 µS/cm	1.22 mg/L	12.00 NTU	136.2 mV	21.74 ft	180.00 ml/min
2/1/2022 2:51 PM	08:00	4.06 pH	18.65 °C	783.83 µS/cm	1.15 mg/L	10.50 NTU	137.7 mV	21.74 ft	180.00 ml/min
2/1/2022 2:55 PM	12:00	4.06 pH	18.53 °C	797.38 µS/cm	1.11 mg/L	4.69 NTU	138.4 mV	21.74 ft	180.00 ml/min
2/1/2022 2:59 PM	16:00	4.06 pH	18.37 °C	805.06 µS/cm	1.13 mg/L	4.01 NTU	139.1 mV	21.74 ft	180.00 ml/min
2/1/2022 3:03 PM	20:00	4.06 pH	18.42 °C	803.92 µS/cm	1.16 mg/L	2.81 NTU	140.0 mV	21.74 ft	180.00 ml/min
2/1/2022 3:07 PM	24:00	4.06 pH	18.37 °C	804.80 µS/cm	1.17 mg/L	1.72 NTU	141.5 mV	21.74 ft	180.00 ml/min

Samples

Sample ID:	Description:
BRGWC-38S	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/2/2022 10:22:45 AM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWC-45 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.45 ft Total Depth: 60.45 ft Initial Depth to Water: 10.86 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 55 ft Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.35 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 10:22 AM	00:00	5.99 pH	18.95 °C	432.92 µS/cm	0.53 mg/L	15.80 NTU	103.0 mV	10.86 ft	180.00 ml/min
2/2/2022 10:26 AM	04:00	5.93 pH	19.62 °C	429.41 µS/cm	0.29 mg/L	11.45 NTU	100.8 mV	11.21 ft	180.00 ml/min
2/2/2022 10:30 AM	08:00	5.93 pH	19.58 °C	430.72 µS/cm	0.22 mg/L	7.46 NTU	99.4 mV	11.21 ft	180.00 ml/min
2/2/2022 10:34 AM	12:00	5.92 pH	19.62 °C	428.09 µS/cm	0.20 mg/L	2.61 NTU	98.3 mV	11.21 ft	180.00 ml/min
2/2/2022 10:38 AM	16:00	5.92 pH	19.83 °C	428.48 µS/cm	0.20 mg/L	2.23 NTU	97.3 mV	11.21 ft	180.00 ml/min

Samples

Sample ID:	Description:
BRGWC-45	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/2/2022 9:05:37 AM

Project: Plant Branch

Operator Name: Joe Booth

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: 26.51 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 87 ft Pump Intake From TOC: 87 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 9:05 AM	00:00	6.03 pH	17.03 °C	2,376.9 µS/cm	0.65 mg/L	9.33 NTU	111.8 mV	26.51 ft	160.00 ml/min
2/2/2022 9:09 AM	04:00	5.80 pH	17.35 °C	2,179.4 µS/cm	0.42 mg/L	11.30 NTU	117.1 mV	27.03 ft	160.00 ml/min
2/2/2022 9:13 AM	08:00	5.76 pH	17.35 °C	2,141.1 µS/cm	0.36 mg/L	9.67 NTU	119.2 mV	27.07 ft	160.00 ml/min
2/2/2022 9:17 AM	12:00	5.75 pH	17.44 °C	2,172.4 µS/cm	0.33 mg/L	7.30 NTU	120.2 mV	27.10 ft	160.00 ml/min
2/2/2022 9:21 AM	16:00	5.75 pH	17.48 °C	2,160.7 µS/cm	0.31 mg/L	5.87 NTU	120.9 mV	27.12 ft	160.00 ml/min
2/2/2022 9:25 AM	20:00	5.75 pH	17.48 °C	2,150.8 µS/cm	0.29 mg/L	3.22 NTU	121.2 mV	27.12 ft	160.00 ml/min

Samples

Sample ID:	Description:
BRGWC-47	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/3/2022 11:28:30 AM

Project: Plant Branch

Operator Name: Jude Waguespack

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: 37.85 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 60 ft Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/3/2022 11:28 AM	00:00	5.34 pH	19.68 °C	2,271.3 µS/cm	3.78 mg/L	0.86 NTU	105.6 mV	37.85 ft	300.00 ml/min
2/3/2022 11:33 AM	05:00	5.23 pH	20.12 °C	2,278.5 µS/cm	0.71 mg/L	0.91 NTU	115.5 mV	38.00 ft	300.00 ml/min
2/3/2022 11:38 AM	10:00	5.21 pH	20.20 °C	2,250.0 µS/cm	0.38 mg/L	0.67 NTU	124.4 mV	38.00 ft	300.00 ml/min
2/3/2022 11:43 AM	15:00	5.20 pH	20.30 °C	2,254.9 µS/cm	0.24 mg/L	0.81 NTU	115.1 mV	38.00 ft	300.00 ml/min
2/3/2022 11:48 AM	20:00	5.20 pH	20.48 °C	2,257.5 µS/cm	0.22 mg/L	1.01 NTU	116.3 mV	38.00 ft	300.00 ml/min

Samples

Sample ID:	Description:
BRGWC-50	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 1:12:34 PM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: BRGWC-52I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.6 ft Total Depth: 76.6 ft Initial Depth to Water: 39.29 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 71 ft Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.66 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 1:12 PM	00:00	6.31 pH	18.77 °C	556.98 µS/cm	0.91 mg/L	5.45 NTU	71.1 mV	39.29 ft	200.00 ml/min
2/2/2022 1:16 PM	04:00	6.34 pH	18.94 °C	561.52 µS/cm	0.56 mg/L	4.81 NTU	49.2 mV	39.85 ft	200.00 ml/min
2/2/2022 1:20 PM	08:00	6.35 pH	18.95 °C	549.77 µS/cm	0.38 mg/L	2.74 NTU	34.5 mV	39.92 ft	200.00 ml/min
2/2/2022 1:24 PM	12:00	6.36 pH	19.00 °C	547.69 µS/cm	0.33 mg/L	2.67 NTU	26.2 mV	39.95 ft	200.00 ml/min
2/2/2022 1:28 PM	16:00	6.35 pH	19.24 °C	545.07 µS/cm	0.32 mg/L	2.51 NTU	20.1 mV	39.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
BRGAC-52I	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/4/2022 9:56:03 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PB-7S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 21.6 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 28 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:
EB-3

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/4/2022 9:56 AM	00:00	5.74 pH	18.43 °C	68.92 µS/cm	4.28 mg/L	12.50 NTU	120.3 mV	21.60 ft	200.00 ml/min
2/4/2022 10:01 AM	05:00	5.60 pH	18.00 °C	82.39 µS/cm	3.66 mg/L	2.71 NTU	121.7 mV	21.70 ft	200.00 ml/min
2/4/2022 10:06 AM	10:00	5.65 pH	18.00 °C	87.63 µS/cm	4.06 mg/L	3.58 NTU	121.9 mV	21.70 ft	200.00 ml/min
2/4/2022 10:11 AM	15:00	5.61 pH	18.00 °C	84.04 µS/cm	4.27 mg/L	4.64 NTU	122.0 mV	21.70 ft	200.00 ml/min
2/4/2022 10:16 AM	20:00	5.62 pH	18.01 °C	83.99 µS/cm	4.09 mg/L	3.69 NTU	122.2 mV	21.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
PB-7S	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 11:45:59 AM

Project: Plant Branch

Operator Name: Joe Booth

<p>Location Name: PZ-44 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47 ft Total Depth: 57 ft Initial Depth to Water: 25.65 ft</p>	<p>Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 52 ft Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 5440 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.25 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 843285</p>
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 11:45 AM	00:00	6.67 pH	26.26 °C	0.13 µS/cm	8.23 mg/L	2.40 NTU	100.0 mV	25.65 ft	170.00 ml/min
2/2/2022 11:49 AM	04:00	6.25 pH	20.00 °C	288.74 µS/cm	1.01 mg/L	23.50 NTU	101.2 mV	25.90 ft	170.00 ml/min
2/2/2022 11:53 AM	08:00	6.20 pH	19.63 °C	291.09 µS/cm	0.51 mg/L	27.00 NTU	99.6 mV	25.90 ft	170.00 ml/min
2/2/2022 11:57 AM	12:00	6.20 pH	19.58 °C	290.64 µS/cm	0.40 mg/L	17.80 NTU	99.1 mV	25.90 ft	170.00 ml/min
2/2/2022 12:01 PM	16:00	6.20 pH	19.75 °C	291.46 µS/cm	0.35 mg/L	11.70 NTU	98.8 mV	25.90 ft	170.00 ml/min
2/2/2022 12:05 PM	20:00	6.20 pH	19.84 °C	290.49 µS/cm	0.31 mg/L	8.85 NTU	99.0 mV	25.90 ft	170.00 ml/min
2/2/2022 12:09 PM	24:00	6.20 pH	19.89 °C	289.58 µS/cm	0.27 mg/L	5.86 NTU	98.9 mV	25.90 ft	170.00 ml/min
2/2/2022 12:13 PM	28:00	6.20 pH	19.75 °C	290.39 µS/cm	0.25 mg/L	4.73 NTU	98.9 mV	25.90 ft	170.00 ml/min
2/2/2022 12:17 PM	32:00	6.20 pH	19.49 °C	290.03 µS/cm	0.24 mg/L	3.76 NTU	99.3 mV	25.90 ft	170.00 ml/min

Samples

Sample ID:	Description:
PZ-44	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/3/2022 10:51:57 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PZ-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 96 ft Total Depth: 106 ft Initial Depth to Water: 63 ft	Pump Type: bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 101 ft Pump Intake From TOC: 101 ft Estimated Total Volume Pumped: 400 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/3/2022 10:51 AM	00:00	6.33 pH	17.63 °C	1,964.6 µS/cm	8.75 mg/L	3.51 NTU	91.5 mV	63.00 ft	200.00 ml/min
2/3/2022 10:53 AM	02:00	6.24 pH	19.03 °C	1,875.9 µS/cm	5.64 mg/L	1.90 NTU	83.5 mV	63.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
PZ-50D	

Low-Flow Test Report:

Test Date / Time: 2/3/2022 3:40:31 PM

Project: Plant Branch

Operator Name: Joe Booth

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: 39.78 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 100 ft Pump Intake From TOC: 100 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.66 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/3/2022 3:40 PM	00:00	6.46 pH	20.46 °C	972.18 µS/cm	1.12 mg/L	14.40 NTU	72.2 mV	39.78 ft	250.00 ml/min
2/3/2022 3:44 PM	04:00	6.56 pH	20.24 °C	996.84 µS/cm	0.36 mg/L	3.84 NTU	53.0 mV	41.46 ft	250.00 ml/min
2/3/2022 3:48 PM	08:00	6.62 pH	20.20 °C	1,002.4 µS/cm	0.27 mg/L	2.33 NTU	39.5 mV	42.55 ft	250.00 ml/min
2/3/2022 3:52 PM	12:00	6.66 pH	20.20 °C	1,005.3 µS/cm	0.22 mg/L	2.43 NTU	25.2 mV	43.45 ft	250.00 ml/min
2/3/2022 3:56 PM	16:00	6.69 pH	20.20 °C	1,002.0 µS/cm	0.20 mg/L	3.18 NTU	9.5 mV	44.25 ft	250.00 ml/min
2/3/2022 4:00 PM	20:00	6.72 pH	20.20 °C	996.90 µS/cm	0.19 mg/L	2.70 NTU	-4.2 mV	44.35 ft	250.00 ml/min
2/3/2022 4:04 PM	24:00	6.75 pH	20.21 °C	997.47 µS/cm	0.17 mg/L	3.58 NTU	-13.2 mV	44.44 ft	250.00 ml/min
2/3/2022 4:08 PM	28:00	6.77 pH	20.13 °C	998.98 µS/cm	0.16 mg/L	2.43 NTU	-17.4 mV	44.44 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-51D	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/2/2022 4:01:12 PM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: PZ-511 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58 ft Total Depth: 68 ft Initial Depth to Water: 38.17 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 63 ft Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/2/2022 4:01 PM	00:00	5.54 pH	19.66 °C	1,872.2 µS/cm	1.54 mg/L	4.42 NTU	118.5 mV	38.17 ft	180.00 ml/min
2/2/2022 4:05 PM	04:00	5.45 pH	19.70 °C	1,951.0 µS/cm	0.51 mg/L	1.48 NTU	117.7 mV	39.13 ft	180.00 ml/min
2/2/2022 4:09 PM	08:00	5.44 pH	19.69 °C	1,951.7 µS/cm	0.32 mg/L	1.61 NTU	117.8 mV	39.18 ft	180.00 ml/min
2/2/2022 4:13 PM	12:00	5.44 pH	19.66 °C	1,923.1 µS/cm	0.24 mg/L	0.61 NTU	118.0 mV	39.18 ft	180.00 ml/min
2/2/2022 4:17 PM	16:00	5.44 pH	19.66 °C	1,920.1 µS/cm	0.18 mg/L	0.57 NTU	118.3 mV	39.18 ft	180.00 ml/min

Samples

Sample ID:	Description:
PZ-511	Metals, TDS, Inorganics, Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/2/2022 12:18:04 PM

Project: Plant Branch

Operator Name: Jude Waguespack

<p>Location Name: PZ-51S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.4 ft Total Depth: 45.4 ft Initial Depth to Water: 38.3 ft</p>	<p>Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 42 ft Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 14620 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.2 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 851413</p>
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/2/2022 12:18 PM	00:00	6.50 pH	16.96 °C	214.43 µS/cm	5.33 mg/L	6.95 NTU	27.3 mV	38.30 ft	150.00 ml/min
2/2/2022 12:23 PM	05:00	6.24 pH	18.34 °C	177.64 µS/cm	1.98 mg/L	8.10 NTU	40.6 mV	39.10 ft	150.00 ml/min
2/2/2022 12:28 PM	10:00	6.19 pH	18.83 °C	175.21 µS/cm	0.52 mg/L	13.90 NTU	46.6 mV	39.52 ft	150.00 ml/min
2/2/2022 12:33 PM	15:00	6.18 pH	18.88 °C	174.77 µS/cm	0.37 mg/L	8.40 NTU	54.4 mV	39.76 ft	150.00 ml/min
2/2/2022 12:38 PM	20:00	6.17 pH	18.92 °C	174.81 µS/cm	0.37 mg/L	4.83 NTU	59.4 mV	40.50 ft	150.00 ml/min
2/2/2022 12:43 PM	25:00	6.19 pH	18.92 °C	177.46 µS/cm	1.92 mg/L	2.90 NTU	55.5 mV	40.50 ft	150.00 ml/min
2/2/2022 12:48 PM	30:00	6.21 pH	18.88 °C	172.23 µS/cm	2.99 mg/L	1.49 NTU	56.9 mV	40.50 ft	150.00 ml/min
2/2/2022 12:53 PM	35:00	6.18 pH	18.79 °C	172.57 µS/cm	2.99 mg/L	1.32 NTU	59.5 mV	40.50 ft	150.00 ml/min
2/2/2022 12:58 PM	40:00	6.19 pH	18.79 °C	172.15 µS/cm	3.24 mg/L	1.16 NTU	60.4 mV	40.50 ft	150.00 ml/min
2/2/2022 1:00 PM	42:28	6.19 pH	18.83 °C	172.98 µS/cm	3.53 mg/L	1.16 NTU	61.2 mV	40.50 ft	150.00 ml/min
2/2/2022 1:05 PM	47:28	6.19 pH	18.82 °C	172.16 µS/cm	3.68 mg/L	0.80 NTU	62.0 mV	40.50 ft	150.00 ml/min
2/2/2022 1:10 PM	52:28	6.15 pH	18.83 °C	171.90 µS/cm	3.53 mg/L	0.68 NTU	64.2 mV	40.50 ft	150.00 ml/min
2/2/2022 1:15 PM	57:28	6.18 pH	18.88 °C	170.53 µS/cm	3.68 mg/L	0.78 NTU	71.9 mV	40.50 ft	150.00 ml/min
2/2/2022 1:20 PM	01:02:28	6.19 pH	18.96 °C	170.50 µS/cm	3.77 mg/L	1.41 NTU	72.4 mV	40.50 ft	150.00 ml/min
2/2/2022 1:25 PM	01:07:28	6.19 pH	18.97 °C	170.54 µS/cm	3.70 mg/L	0.68 NTU	73.3 mV	40.50 ft	150.00 ml/min

2/2/2022 1:30 PM	01:12:28	6.16 pH	19.10 °C	170.40 µS/cm	4.15 mg/L	0.72 NTU	76.2 mV	40.50 ft	150.00 ml/min
2/2/2022 1:35 PM	01:17:28	6.19 pH	19.14 °C	170.33 µS/cm	4.11 mg/L	0.74 NTU	75.4 mV	40.50 ft	150.00 ml/min
2/2/2022 1:40 PM	01:22:28	6.19 pH	19.06 °C	170.07 µS/cm	4.10 mg/L	0.79 NTU	76.4 mV	40.50 ft	150.00 ml/min
2/2/2022 1:45 PM	01:27:28	6.15 pH	19.10 °C	169.83 µS/cm	3.49 mg/L	0.55 NTU	78.9 mV	40.50 ft	150.00 ml/min
2/2/2022 1:50 PM	01:32:28	6.18 pH	19.16 °C	169.66 µS/cm	3.53 mg/L	1.07 NTU	78.4 mV	40.50 ft	150.00 ml/min
2/2/2022 1:55 PM	01:37:28	6.19 pH	19.06 °C	171.38 µS/cm	3.64 mg/L	0.55 NTU	70.1 mV	40.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
PZ-51S	

Low-Flow Test Report:

Test Date / Time: 2/4/2022 8:40:02 AM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PZ-54 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42 ft Total Depth: 52 ft Initial Depth to Water: 46.8 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 ft Tubing Length: 46 ft Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 1000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Well dry- no sample

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/4/2022 8:40 AM	00:00	7.05 pH	17.72 °C	328.05 µS/cm	9.32 mg/L	1,000.00 NTU	136.2 mV	46.80 ft	100.00 ml/min
2/4/2022 8:45 AM	05:00	7.04 pH	17.71 °C	513.26 µS/cm	7.00 mg/L	1,000.00 NTU	139.5 mV	46.80 ft	100.00 ml/min
2/4/2022 8:50 AM	10:00	6.98 pH	17.60 °C	635.80 µS/cm	8.53 mg/L	1,000.00 NTU	139.8 mV	BTOP	100.00 ml/min

NO SAMPLE TAKEN; REFLECTED ON SMP

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2022 8:23:07 AM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: PZ-571 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 65.93 ft Total Depth: 75.93 ft Initial Depth to Water: 35.72 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 70 ft Pump Intake From TOC: 70 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/4/2022 8:23 AM	00:00	6.48 pH	18.67 °C	798.11 µS/cm	2.79 mg/L	68.40 NTU	79.6 mV	35.72 ft	180.00 ml/min
2/4/2022 8:27 AM	04:00	5.52 pH	18.95 °C	843.30 µS/cm	0.45 mg/L	13.30 NTU	64.6 mV	36.08 ft	180.00 ml/min
2/4/2022 8:31 AM	08:00	5.36 pH	19.02 °C	854.67 µS/cm	0.26 mg/L	6.47 NTU	61.4 mV	36.08 ft	180.00 ml/min
2/4/2022 8:35 AM	12:00	5.31 pH	19.04 °C	861.11 µS/cm	0.20 mg/L	3.70 NTU	60.8 mV	36.08 ft	180.00 ml/min
2/4/2022 8:39 AM	16:00	5.29 pH	19.08 °C	858.50 µS/cm	0.16 mg/L	3.59 NTU	60.9 mV	36.08 ft	180.00 ml/min
2/4/2022 8:43 AM	20:00	5.28 pH	19.13 °C	852.87 µS/cm	0.14 mg/L	3.79 NTU	60.9 mV	36.08 ft	180.00 ml/min
2/4/2022 8:47 AM	24:00	5.28 pH	19.12 °C	846.99 µS/cm	0.12 mg/L	3.28 NTU	60.6 mV	36.08 ft	180.00 ml/min

Samples

Sample ID:	Description:
PZ-571	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/3/2022 1:21:58 PM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: PZ-58I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.93 ft Total Depth: 63.93 ft Initial Depth to Water: 37.96 ft	Pump Type: Bladder MP-50 Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 58 ft Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 9875 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy, slight rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/3/2022 1:21 PM	00:00	3.28 pH	22.25 °C	1,357.7 µS/cm	5.65 mg/L	35.00 NTU	355.7 mV	37.95 ft	175.00 ml/min
2/3/2022 1:26 PM	05:00	3.91 pH	20.49 °C	1,480.8 µS/cm	0.41 mg/L	35.60 NTU	243.8 mV	37.95 ft	200.00 ml/min
2/3/2022 1:31 PM	10:00	3.93 pH	20.44 °C	1,460.6 µS/cm	0.25 mg/L	25.20 NTU	236.9 mV	37.95 ft	200.00 ml/min
2/3/2022 1:36 PM	15:00	3.93 pH	20.44 °C	1,479.1 µS/cm	0.20 mg/L	20.20 NTU	218.5 mV	37.98 ft	200.00 ml/min
2/3/2022 1:41 PM	20:00	3.93 pH	20.50 °C	1,477.5 µS/cm	0.21 mg/L	22.10 NTU	226.6 mV	37.98 ft	200.00 ml/min
2/3/2022 1:46 PM	25:00	3.92 pH	20.49 °C	1,483.9 µS/cm	0.20 mg/L	18.10 NTU	224.2 mV	37.98 ft	200.00 ml/min
2/3/2022 1:51 PM	30:00	3.91 pH	20.43 °C	1,493.8 µS/cm	0.18 mg/L	14.00 NTU	209.6 mV	37.95 ft	200.00 ml/min
2/3/2022 1:56 PM	35:00	3.91 pH	20.35 °C	1,488.6 µS/cm	0.17 mg/L	12.10 NTU	220.2 mV	37.95 ft	200.00 ml/min
2/3/2022 2:01 PM	40:00	3.91 pH	20.28 °C	1,499.8 µS/cm	0.17 mg/L	8.18 NTU	206.2 mV	37.95 ft	200.00 ml/min
2/3/2022 2:06 PM	45:00	3.91 pH	20.31 °C	1,490.7 µS/cm	0.15 mg/L	5.65 NTU	217.0 mV	37.95 ft	200.00 ml/min
2/3/2022 2:11 PM	50:00	3.90 pH	20.29 °C	1,499.7 µS/cm	0.16 mg/L	3.55 NTU	203.5 mV	37.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
PZ-581	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/3/2022 10:00:33 AM

Project: Plant Branch

Operator Name: Joe Booth

<p>Location Name: PZ-59I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60 ft Total Depth: 70 ft Initial Depth to Water: 39.33 ft</p>	<p>Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 65 ft Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 25728 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.61 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 843285</p>
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/3/2022 10:00 AM	00:00	3.64 pH	19.49 °C	3,523.0 µS/cm	0.41 mg/L	52.50 NTU	157.7 mV	39.33 ft	180.00 ml/min
2/3/2022 10:02 AM	01:36	3.67 pH	19.81 °C	3,522.0 µS/cm	0.28 mg/L	52.50 NTU	154.5 mV	39.33 ft	180.00 ml/min
2/3/2022 10:06 AM	05:36	3.68 pH	20.03 °C	3,569.6 µS/cm	0.20 mg/L	54.40 NTU	152.5 mV	40.24 ft	180.00 ml/min
2/3/2022 10:10 AM	09:36	3.69 pH	20.08 °C	3,545.0 µS/cm	0.16 mg/L	69.60 NTU	152.3 mV	40.11 ft	170.00 ml/min
2/3/2022 10:14 AM	13:36	3.69 pH	19.89 °C	3,548.8 µS/cm	0.19 mg/L	53.30 NTU	152.4 mV	40.07 ft	170.00 ml/min
2/3/2022 10:18 AM	17:36	3.68 pH	19.94 °C	3,554.9 µS/cm	0.17 mg/L	46.50 NTU	152.6 mV	39.99 ft	150.00 ml/min
2/3/2022 10:22 AM	21:36	3.68 pH	19.84 °C	3,534.9 µS/cm	0.18 mg/L	38.60 NTU	152.9 mV	39.89 ft	150.00 ml/min
2/3/2022 10:26 AM	25:36	3.68 pH	19.84 °C	3,539.1 µS/cm	0.17 mg/L	36.10 NTU	153.1 mV	39.83 ft	150.00 ml/min
2/3/2022 10:30 AM	29:36	3.69 pH	19.99 °C	3,560.2 µS/cm	0.16 mg/L	32.40 NTU	153.2 mV	39.83 ft	150.00 ml/min
2/3/2022 10:34 AM	33:36	3.69 pH	20.10 °C	3,524.9 µS/cm	0.14 mg/L	30.00 NTU	153.4 mV	39.83 ft	150.00 ml/min
2/3/2022 10:38 AM	37:36	3.70 pH	20.13 °C	3,546.1 µS/cm	0.14 mg/L	27.50 NTU	153.5 mV	39.83 ft	150.00 ml/min
2/3/2022 10:42 AM	41:36	3.70 pH	20.19 °C	3,528.8 µS/cm	0.12 mg/L	29.50 NTU	153.6 mV	39.83 ft	150.00 ml/min
2/3/2022 10:46 AM	45:36	3.70 pH	19.96 °C	3,517.7 µS/cm	0.15 mg/L	27.40 NTU	154.0 mV	39.83 ft	150.00 ml/min
2/3/2022 10:50 AM	49:36	3.70 pH	19.91 °C	3,539.9 µS/cm	0.15 mg/L	27.40 NTU	154.2 mV	39.83 ft	150.00 ml/min

2/3/2022 10:54 AM	53:36	3.70 pH	19.95 °C	3,538.4 µS/cm	0.15 mg/L	24.40 NTU	154.3 mV	39.78 ft	150.00 ml/min
2/3/2022 10:58 AM	57:36	3.70 pH	19.88 °C	3,526.6 µS/cm	0.14 mg/L	22.30 NTU	154.5 mV	39.78 ft	150.00 ml/min
2/3/2022 11:02 AM	01:01:36	3.71 pH	19.76 °C	3,548.5 µS/cm	0.13 mg/L	21.60 NTU	154.6 mV	39.78 ft	150.00 ml/min
2/3/2022 11:06 AM	01:05:36	3.71 pH	19.71 °C	3,548.2 µS/cm	0.13 mg/L	22.40 NTU	154.7 mV	39.78 ft	150.00 ml/min
2/3/2022 11:10 AM	01:09:36	3.71 pH	19.66 °C	3,560.3 µS/cm	0.13 mg/L	24.00 NTU	154.9 mV	39.78 ft	150.00 ml/min
2/3/2022 11:14 AM	01:13:36	3.71 pH	19.75 °C	3,565.8 µS/cm	0.12 mg/L	18.10 NTU	154.9 mV	39.78 ft	150.00 ml/min
2/3/2022 11:18 AM	01:17:36	3.71 pH	19.90 °C	3,546.0 µS/cm	0.11 mg/L	18.40 NTU	155.0 mV	39.78 ft	150.00 ml/min
2/3/2022 11:22 AM	01:21:36	3.71 pH	20.04 °C	3,579.9 µS/cm	0.12 mg/L	15.90 NTU	155.1 mV	39.78 ft	150.00 ml/min
2/3/2022 11:26 AM	01:25:36	3.70 pH	20.19 °C	3,558.9 µS/cm	0.11 mg/L	18.50 NTU	155.2 mV	39.78 ft	150.00 ml/min
2/3/2022 11:30 AM	01:29:36	3.71 pH	20.11 °C	3,550.4 µS/cm	0.11 mg/L	20.90 NTU	155.4 mV	39.78 ft	150.00 ml/min
2/3/2022 11:34 AM	01:33:36	3.71 pH	20.29 °C	3,571.7 µS/cm	0.11 mg/L	19.80 NTU	155.4 mV	39.78 ft	150.00 ml/min
2/3/2022 11:38 AM	01:37:36	3.71 pH	20.35 °C	3,558.1 µS/cm	0.10 mg/L	16.50 NTU	155.5 mV	39.78 ft	150.00 ml/min
2/3/2022 11:42 AM	01:41:36	3.71 pH	20.42 °C	3,586.2 µS/cm	0.10 mg/L	16.90 NTU	155.6 mV	39.78 ft	150.00 ml/min
2/3/2022 11:46 AM	01:45:36	3.71 pH	20.74 °C	3,573.8 µS/cm	0.10 mg/L	16.10 NTU	155.6 mV	39.78 ft	150.00 ml/min
2/3/2022 11:50 AM	01:49:36	3.71 pH	21.09 °C	3,562.0 µS/cm	0.10 mg/L	13.90 NTU	155.6 mV	39.78 ft	150.00 ml/min
2/3/2022 11:54 AM	01:53:36	3.71 pH	20.86 °C	3,576.7 µS/cm	0.09 mg/L	15.10 NTU	155.9 mV	39.78 ft	150.00 ml/min
2/3/2022 11:58 AM	01:57:36	3.71 pH	20.87 °C	3,594.6 µS/cm	0.36 mg/L	13.50 NTU	156.0 mV	39.78 ft	150.00 ml/min
2/3/2022 12:02 PM	02:01:36	3.71 pH	20.78 °C	3,611.2 µS/cm	0.44 mg/L	14.40 NTU	156.3 mV	39.78 ft	220.00 ml/min
2/3/2022 12:06 PM	02:05:36	3.71 pH	20.73 °C	3,627.5 µS/cm	0.68 mg/L	14.00 NTU	156.6 mV	39.94 ft	220.00 ml/min
2/3/2022 12:10 PM	02:09:36	3.70 pH	20.64 °C	3,627.7 µS/cm	0.85 mg/L	10.60 NTU	157.2 mV	39.94 ft	220.00 ml/min
2/3/2022 12:14 PM	02:13:36	3.70 pH	20.60 °C	3,646.2 µS/cm	0.84 mg/L	7.98 NTU	157.9 mV	39.94 ft	220.00 ml/min
2/3/2022 12:18 PM	02:17:36	3.70 pH	20.68 °C	3,531.0 µS/cm	0.96 mg/L	8.76 NTU	158.7 mV	39.94 ft	220.00 ml/min
2/3/2022 12:22 PM	02:21:36	3.70 pH	20.69 °C	3,631.1 µS/cm	0.92 mg/L	7.51 NTU	159.3 mV	39.94 ft	220.00 ml/min
2/3/2022 12:26 PM	02:25:36	3.70 pH	20.79 °C	3,641.6 µS/cm	1.11 mg/L	6.56 NTU	159.9 mV	39.94 ft	220.00 ml/min
2/3/2022 12:30 PM	02:29:36	3.70 pH	20.82 °C	3,639.1 µS/cm	1.27 mg/L	5.61 NTU	160.7 mV	39.94 ft	220.00 ml/min
2/3/2022 12:34 PM	02:33:36	3.71 pH	20.93 °C	3,647.9 µS/cm	1.35 mg/L	4.30 NTU	161.5 mV	39.94 ft	220.00 ml/min

Samples

Sample ID:	Description:
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PZ-59I

Metals, TDS, Inorganics, Alkalinity, Radium,sulfide, Hardness, DOC, FE,

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/3/2022 10:09:38 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: PZ-60I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.83 ft Total Depth: 60.83 ft Initial Depth to Water: 37.83 ft	Pump Type: Bladder MP-50 Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 55ft Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 6500 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/3/2022 10:09 AM	00:00	5.32 pH	17.95 °C	3,099.9 µS/cm	3.80 mg/L	44.70 NTU	279.2 mV	37.95 ft	175.00 ml/min
2/3/2022 10:14 AM	05:00	4.74 pH	19.51 °C	3,102.2 µS/cm	0.46 mg/L	19.70 NTU	291.8 mV	37.92 ft	225.00 ml/min
2/3/2022 10:19 AM	10:00	4.74 pH	19.81 °C	3,104.0 µS/cm	0.23 mg/L	9.65 NTU	316.7 mV	37.92 ft	225.00 ml/min
2/3/2022 10:24 AM	15:00	4.74 pH	19.86 °C	3,085.7 µS/cm	0.19 mg/L	6.82 NTU	309.8 mV	38.00 ft	225.00 ml/min
2/3/2022 10:29 AM	20:00	4.74 pH	19.94 °C	3,097.0 µS/cm	0.16 mg/L	4.82 NTU	343.5 mV	37.95 ft	225.00 ml/min
2/3/2022 10:34 AM	25:00	4.74 pH	19.98 °C	3,072.8 µS/cm	0.14 mg/L	3.39 NTU	324.7 mV	37.92 ft	225.00 ml/min
2/3/2022 10:39 AM	30:00	4.73 pH	19.98 °C	3,068.0 µS/cm	0.13 mg/L	2.76 NTU	328.3 mV	37.95 ft	225.00 ml/min

Samples

Sample ID:	Description:
PZ-60I	

Low-Flow Test Report:

Test Date / Time: 2/2/2022 3:07:38 PM

Project: Plant Branch

Operator Name: Jude Waguespack

Location Name: PZ-611 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.03 ft Total Depth: 76.03 ft Initial Depth to Water: 47.69 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 71 ft Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
2/2/2022 3:07 PM	00:00	5.88 pH	19.88 °C	1,858.6 µS/cm	3.01 mg/L	20.70 NTU	0.5 mV	47.69 ft	200.00 ml/min
2/2/2022 3:12 PM	05:00	5.84 pH	19.07 °C	2,053.8 µS/cm	0.39 mg/L	3.56 NTU	-30.2 mV	48.20 ft	200.00 ml/min
2/2/2022 3:17 PM	10:00	5.78 pH	18.95 °C	2,166.8 µS/cm	0.25 mg/L	1.87 NTU	-53.4 mV	48.25 ft	200.00 ml/min
2/2/2022 3:22 PM	15:00	5.75 pH	18.97 °C	2,276.7 µS/cm	0.20 mg/L	1.18 NTU	-51.5 mV	48.25 ft	200.00 ml/min
2/2/2022 3:27 PM	20:00	5.46 pH	19.02 °C	2,348.6 µS/cm	0.16 mg/L	0.99 NTU	-34.5 mV	48.25 ft	200.00 ml/min
2/2/2022 3:32 PM	25:00	5.34 pH	19.06 °C	2,371.4 µS/cm	0.14 mg/L	1.35 NTU	-18.6 mV	48.25 ft	200.00 ml/min
2/2/2022 3:37 PM	30:00	5.28 pH	19.06 °C	2,408.3 µS/cm	0.12 mg/L	1.53 NTU	-5.3 mV	48.30 ft	200.00 ml/min
2/2/2022 3:42 PM	35:00	5.25 pH	19.06 °C	2,439.9 µS/cm	0.11 mg/L	1.93 NTU	4.5 mV	48.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
PZ-611	

Low-Flow Test Report:

Test Date / Time: 2/4/2022 9:43:46 AM

Project: Plant Branch

Operator Name: Joe Booth

Location Name: PZ-62I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60 ft Total Depth: 70 ft Initial Depth to Water: 38.75 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 65 ft Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
2/4/2022 9:43 AM	00:00	5.81 pH	19.35 °C	1,062.9 µS/cm	0.40 mg/L	20.90 NTU	70.4 mV	38.75 ft	170.00 ml/min
2/4/2022 9:47 AM	04:00	5.79 pH	19.38 °C	1,082.0 µS/cm	0.28 mg/L	9.03 NTU	68.3 mV	39.60 ft	170.00 ml/min
2/4/2022 9:51 AM	08:00	5.79 pH	19.40 °C	1,090.8 µS/cm	0.22 mg/L	8.74 NTU	66.1 mV	39.60 ft	170.00 ml/min
2/4/2022 9:55 AM	12:00	5.79 pH	19.40 °C	1,089.8 µS/cm	0.20 mg/L	7.45 NTU	63.9 mV	39.60 ft	170.00 ml/min
2/4/2022 9:59 AM	16:00	5.79 pH	19.41 °C	1,091.0 µS/cm	0.16 mg/L	5.96 NTU	61.8 mV	39.60 ft	170.00 ml/min
2/4/2022 10:03 AM	20:00	5.79 pH	19.44 °C	1,091.1 µS/cm	0.16 mg/L	4.16 NTU	60.0 mV	39.60 ft	170.00 ml/min

Samples

Sample ID:	Description:
PZ-62I	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 2/4/2022 9:44:53 AM

Project: Plant Banch

Operator Name: Duane Fulton

Location Name: PZ-63I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60 ft Total Depth: 70 ft Initial Depth to Water: 38.92 ft	Pump Type: Dedicated Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 65 ft Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.76 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
2/4/2022 9:44 AM	00:00	6.20 pH	18.17 °C	611.39 µS/cm	7.15 mg/L	62.00 NTU	83.2 mV	39.30 ft	250.00 ml/min
2/4/2022 9:49 AM	05:00	6.06 pH	19.07 °C	605.65 µS/cm	0.37 mg/L	30.30 NTU	65.0 mV	39.65 ft	250.00 ml/min
2/4/2022 9:54 AM	10:00	6.05 pH	19.15 °C	604.76 µS/cm	0.27 mg/L	18.50 NTU	34.7 mV	39.68 ft	250.00 ml/min
2/4/2022 9:59 AM	15:00	5.99 pH	19.15 °C	602.58 µS/cm	0.19 mg/L	6.38 NTU	26.4 mV	39.68 ft	250.00 ml/min
2/4/2022 10:04 AM	20:00	5.96 pH	19.17 °C	601.57 µS/cm	0.17 mg/L	2.60 NTU	24.0 mV	39.69 ft	250.00 ml/min
2/4/2022 10:09 AM	25:00	5.91 pH	19.19 °C	600.19 µS/cm	0.16 mg/L	1.53 NTU	21.4 mV	39.68 ft	250.00 ml/min
2/4/2022 10:14 AM	30:00	5.89 pH	19.21 °C	596.87 µS/cm	0.14 mg/L	0.93 NTU	22.0 mV	39.68 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-63I	

PURGING AND SAMPLING FORM

Project #: 100626421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: RR6WA-125	Date: 2/1/22	Water Level (ft): 50.06	Time (ML): 1303
Physical Condition of Well:		Weather: 55° Clear	
Well Diameter (in): 2	Well Depth (ft): 61.01	Water Column (ft): 10.95	Well Volume (gal): 1.78
Start Purge: 1303	End Purge: 1350	Top of Pump (ft): 65.01	
Evacuation Method: Low-Flow		Volume Removed (L): 7.5	
Evacuation Equipment: QED Dedicated		Purging Personnel: Joe Bost	
SmarTroll serial #: 843 285		LaMotte serial #: 181106071494	

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTIC)	Pumping Rate
1349	Clear	ND	5.81	77.60	7.09	19.84	104.6	1.81	50.37	130 ^{ML} / _{min}
			Sampled @ 1354							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L, (whichever is greater, for DO = 0.0mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3L, purge water, water level ± 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: RR6WA-125 Sample Date/Time: 2/1/22 1354 Metals Date/Time: 2/1/22 1354
 Duplicate: Dup Date/Time: Final Turbidity NTU: 1.81
 Field Blank: Blank Date/Time: Turbidity Date/Time: 2/1/22 1354

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV Total = K, Na, Mg
1 + 1	250 mL plastic	-	TDS, Cl, F, SO4
1	500 mL plastic	-	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature: Joe Bost

PURGING AND SAMPLING FORM

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRGWA-12I</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>49.97</u>	Time (WL): <u>1048</u>
Physical Condition of Well:		Weather:	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>80.54</u>	Water Column (ft): <u>30.65</u>	Well Volume (gal): <u>4.99</u>
Start Purge: <u>1050</u>	End Purge: <u>1219</u>	Top of Pump (ft): <u>75.54</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>13.7 L</u>	
Evacuation Equipment: <u>dedicated</u>		Purging Personnel: <u>Jac Booth</u>	
SmarTrol serial #: <u>843285</u>		Lahotte serial #: <u>18110C 071404</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTIC)	Pumping Rate
<u>1219</u>	<u>clear</u>	<u>NO</u>	<u>6.40</u>	<u>139.65</u>	<u>8.18</u>	<u>19.10</u>	<u>100.4</u>	<u>2.45</u>	<u>58.19</u>	<u>10 $\frac{gpm}{min}$</u>
			<u>sampled @</u>		<u>1224</u>					

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L, (whichever is greater, for DO = 0.0mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU, Purge volume \geq 3L, purge water, water level \pm 0.3 ft. Temp and ORP record only

Sample Description

Sample ID: BRGWA-12I Sample Date/Time: 2/1/22-1224 Metals Date/Time: 2/1/22-1224
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.45
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2/1/22-1224

# Sample bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1+1</u>	<u>250 ml, plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 ml, plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: *[Handwritten Signature]*

PURGING AND SAMPLING FORM

Project #: 166825421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>ER6WA-335</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>28.64</u>	Time (WL): <u>0800</u>
Physical Condition of Well: <u>good</u>	Weather: <u>30° Clear</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>43.90</u>	Water Column (ft): <u>5.16</u>	Well Volume (gal): <u>0.84</u>
Start Purge: <u>9:00</u>	End Purge: <u>9:58</u>	Top of Pump (ft): <u>28.96</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>11.4 L</u>	
Evacuation Equipment: <u>dedicated</u>		Purging Personnel: <u>Joe Baker</u>	
SmartTroll serial #: <u>843295</u>		Labette serial #: <u>19A0C071494</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (B.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (B BTDC)	Pumping Rate
<u>Purged 3 Well Volumes before sampling</u>										
<u>4:54</u>	<u>clear</u>	<u>None</u>	<u>5.65</u>	<u>162.76</u>	<u>4.32</u>	<u>15.7</u>	<u>194</u>	<u>2.34</u>	<u>33.78</u>	<u>170 ^{gpm} / _{min}</u>
		<u>sampled @</u>		<u>10:06</u>						

Stabilization Criteria: pH ± 0.1 B.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: ER6WA-335 Sample Date/Time: 2/1/22 10:06 Metals Date/Time: 2/1/22 16:44
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 2.78
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 2/1/22 10:06

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1 + 1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>Fe, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Joe Baker

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SOB Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-515</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>38.30</u>	Time (WL): <u>10:41</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>52°F, cloudy</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>45.40</u>	Water Column (ft): <u>7.1</u>	Well Volume (gal): <u>1.16</u> ^{yd}
Start Purge: <u>12:18</u>	End Purge: <u>13:56</u>	Top of Pump (ft): <u>42</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>14.6 L</u>		
Evacuation Equipment: <u>Bladder Pump</u>	Purging Personnel: <u>Jane Vanoverton</u>		
SmartTroll serial #: <u>85143</u>	LabTroll serial #: <u>Unit 131105029655</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (B TOC)	Pumping Rate
12:38	clear	none	6.17	174.86	0.27 LAT	18.92	59.4 57.9	4.83	80% 80%	150 $\frac{mL}{min}$
		purging		3 uS/cm	none	4.44	23.0	13.2	L	
13:56	clear	none	6.19	171.38	3.64	19.06	70.1	0.55	STOP	150
		SAMPLED		@ 13:56						

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \pm 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-515 Sample Date/Time: 2.2.22/13:56 Metals Date/Time: 2.2.22/11:46
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 0.55
 Field Blank: FB-2 Blank Date/Time: 2.2.22/13:23 Turbidity Date/Time: 2.2.22/13:56

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 mL plastic	HNO3	Metals App III/IV Total + R, Na, Mg
<u>2</u>	250 mL plastic	-	Δ IB5, Cl, F, SO4
<u>2</u>	500 mL plastic	-	Alkalinity (Bicarbonate + Carbonate)
<u>4</u>	1 L plastic	HNO3	Radium 226/228
<u>1</u>	500 μ L	-	TDI

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 188525421	Project Name/Site Name: SCS Plant Branch		Page: <u>1 of 1</u>
Well ID #: <u>P2-51D</u>	Date: <u>2/3/22</u>	Water Level (ft): <u>39.73</u>	Time (M): <u>15:22</u>
Physical Condition of Well: <u>good</u>	Weather: <u>60 overcast</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>106.5</u>	Water Column (ft): <u>66.22</u>	Well Volume (gal): <u>10.78</u>
Start Purge: <u>15:32</u>	End Purge: <u>16:11</u>	Top of Pump (ft): <u>100</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>7.00</u>	
Evacuation Equipment: <u>314030</u>	Purging Personnel: <u>Vpe Bost</u>		
SmartTroll serial #: <u>843285</u>	LaMotte serial #: <u>1811 060 71494</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R.B.TOO)	Pumping Rate
<u>16:11</u>	<u>Clear</u>	<u>None</u>	<u>6.77</u>	<u>972.18</u>	<u>0.16</u>	<u>20.13</u>	<u>-17.4</u>	<u>2.47</u>	<u>44.44</u>	<u>225</u>
			<u>sampled</u>		<u>@</u>	<u>16:16</u>				

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater), for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3I, purge water, water level ± 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: P2-51D Sample Date/Time: 2/3/22 16:16 Metals Date/Time: 2/3/22 16:16
 Duplicate: XM Radium Dup Date/Time: 2/3/22 Final Turbidity NTU: 2.43
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 2/3/22 16:16

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1+1</u>	<u>250 ml, plastic</u>	<u>--</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 ml, plastic</u>	<u>--</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>4</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 180025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-58I</u>	Date: <u>02/03/22</u>	Water Level (ft): <u>37.95</u>	Time (ML): <u>12:25</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLOUDY, SLIGHT RAIN 60's</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>63.73</u>	Water Column (ft): <u>25.95</u>	Well Volume (gal): <u>4.23</u>
Start Purge: <u>13:21</u>	End Purge: <u>14:11</u>	Top of Pump (ft): <u>58.00</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>9.875</u>		
Evacuation Equipment: <u>BLADORA MF-50 AMP</u>	Purging Personnel: <u>OVANS FULTON</u>		
SmorTroll serial #: <u>850751</u>	LaBette serial #: <u>110800011670</u>		

HACH

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (± 0.1)	Cond. (µS/cm)	DO (mg/L)	Temp (°C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTWC)	Pumping Rate
<u>14:11</u>	<u>CLAR</u>	<u>None</u>	<u>3.90</u>	<u>1,499.7</u>	<u>0.16</u>	<u>20.25</u>	<u>203.5</u>	<u>3.55</u>	<u>37.95</u>	<u>200 ^{gpm} / min</u>
<u>SAMPLE 14:13</u>										

Stabilization Criteria: pH ± 0.1 ± 0.2, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity < 5 NTU, Purge volume ≥ 3x, purge water, water level ± 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: PZ-58I Sample Date/Time: 02/03/22 - 14:13 Metals Date/Time: 02/03/22 - 14:18
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 3.84
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 02/03/22 - 14:30

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>1</u>	<u>250 mL PLASTIC</u>	<u>HNO3</u>	<u>HAZARDOUS</u>
<u>1</u>	<u>250 mL PLASTIC</u>	<u>—</u>	<u>FERRIC IRON</u>
<u>3</u>	<u>40 mL VIAL</u>	<u>HCL</u>	<u>DOC / TURBIDITY 0.50 NTU</u>

Signature: Duan del

<u>1</u>	<u>125 mL PLASTIC</u>	<u>NH4⁺</u>	<u>SULFIDE</u>
<u>1</u>	<u>125 mL PLASTIC</u>	<u>H2SO4</u>	<u>NO2 + NO3</u>



PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: BCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>72-59E</u>	Date: <u>7/3/22</u>	Water Level (ft): <u>35.33</u>	Time (WL): <u>9:30</u>
Physical Condition of Well: <u>good</u>		Weather: <u>50° overcast</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>70</u>	Water Column (ft): <u>30.67</u>	Well Volume (gal): <u>5.0</u>
Start Purge: <u>09:18</u>	End Purge: <u>12:35</u>	Top of Pump (ft): <u>60</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>27.4 L</u>	
Evacuation Equipment: <u>Blower</u>		Purging Personnel: <u>Joe B...</u>	
SmartTroll serial #: <u>243285</u>		LaMotte serial #: <u>1811060 21454</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (RBTCC)	Pumping Rate
<u>11:35</u>	<u>clear</u>	<u>none</u>	<u>3.71</u>	<u>3647.9</u>	<u>1.35</u>	<u>20.93</u>	<u>161.5</u>	<u>4.30</u>	<u>35.64</u>	<u>240 gpm</u>
			<u>sampled</u>	<u>Q</u>	<u>1240</u>					

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L, (whichever is greater, for DO ≤ 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: 72-59E Sample Date/Time: 7/3/22 12:40 Metals Date/Time: 7/3/22 12:40
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 4.30
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 7/3/22 12:40

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total = K, Na, Mg / 4 bottles</u>
<u>3</u>	<u>250 mL plastic</u>	<u>—</u>	<u>TDS, Cl, F, SO4 / Fe⁺⁺, P⁺⁺</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>2</u>	<u>100 mL plastic</u>	<u>HNO3 / H2O2</u>	<u>NO2- / NO3- & sulfide</u>
<u>3</u>	<u>40 mL water</u>		

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SCB Plant Branch		Page: 1 of 1
Well ID #: P2-44	Date: 2/2/22	Water Level (ft): 25.65	Time (WL): 11:38
Physical Condition of Well: good		Weather: 50° average	
Well Diameter (in): 2	Well Depth (ft): 57.0	Water Column (ft): 2.35	Well Volume (gal): 5.11
Start Purge: 1140	End Purge: 1214	Top of Pump (ft): 52.0	
Evacuation Method: Low-Flow		Volume Removed (L): 7.4 L	
Evacuation Equipment: @ Bladder	Purging Personnel: Joe Doolin		
SmartTroll serial #: 843285	LaMotte serial #: 181100071494		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
12:17	clear	NO	6.20	290.03	0.28	19.49	99.3	3.76	25.90	170 ^{gpm}
			sampled @			12:23				

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-44 Sample Date/Time: 2/2/22 12:23 Metals Date/Time: 2/2/22 12:23
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 3.76
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2/2/22 12:23

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV Total = K, Na, Mg
1+1	250 mL plastic	-	TDS, Cl, F, SO4
1	500 mL plastic	-	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166826421	Project Name/Site Name: SCS Plant Branch		Page <u>1</u> of <u>1</u>
Well ID #: <u>P2-50D</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>38.0</u>	Time (M): <u>9:30</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>cloudy, 46°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>106.0</u>	Water Column (ft): <u>68.0</u>	Well Volume (gal): <u>11.88</u>
Start Purge: <u>10:08</u>	End Purge:	Top of Pump (ft): <u>101</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>39.4 L</u>		
Evacuation Equipment: <u>BRANDS PUMP</u>	Purging Personnel: <u>Jesse Wadsworth</u>		
SmearTroll serial #: <u>851413</u>	Labette TM serial #: <u>1611 1811-0021615</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTDC)	Pumping Rate
10:13	clear	none	6.59	1962.3	12.75	18.26	13.9	3.89	39.03	200 $\frac{L}{min}$
11:03	clear	none	6.50	1949.6	10.21	19.07	18.5	3.27	54.75	200
11:54	clear	none	6.52	1940.3	9.95	18.89	15.0	15.2	69.15	200
13:17	clear	none	-	-	-	-	-	20.9	90.46	200
14:12		well	EVACUATED - RETURN TO SAMPLE					2/3	Top of Pump	
2/2/22 10:47	10:51	begin	run						63.0	
10:54	clear	none	6.24	1875.9	8.64	19.03	83.5	1.90	68.95	200 $\frac{L}{min}$

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO \leq 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU, Purge volume \geq 3L, purge water, water level \leq 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: P2-50D Sample Date/Time: 2.3.22/10:54 Metals Date/Time: 2.3.22/10:54
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 1.90
 Field Blank: FB-3 Blank Date/Time: 2.3.22/11:10 Turbidity Date/Time: 2.3.22/10:54

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 ml, plastic	HNO3	Metals App III/IV Total + K, Na, Mg
<u>2</u>	250 ml, plastic	"	TDS, Cl, F, SO4
<u>2</u>	600 ml, plastic	"	Alkalinity (Bicarbonate + Carbonate)
<u>4</u>	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-51 I</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>38.17</u>	Time (W.): <u>3:53</u>
Physical Condition of Well: <u>good</u>	Weather: <u>60° overcast</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>68.0</u>	Water Column (ft): <u>29.83</u>	Well Volume (gal): <u>49.35</u>
Start Purge: <u>1555</u>	End Purge: <u>1620</u>	Top of Pump (ft): <u>63.0</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.9</u>	
Evacuation Equipment: <u>Bladder</u>	Purging Personnel: <u>Joe Sabo</u>		
SmartTroll serial #: <u>243795</u>	LaMotte serial #: <u>1511 060 71494</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1617</u>	<u>clear</u>	<u>NO</u>	<u>5.44</u>	<u>1920.1</u>	<u>0.15</u>	<u>19.66</u>	<u>119.3</u>	<u>0.57</u>	<u>39.14</u>	<u>160 $\frac{gpm}{min}$</u>
			<u>Sampled</u>		<u>1620</u>					

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.0mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: PZ-51 I Sample Date/Time: 2/2/22 1620 Metals Date/Time: 2/2/22 1620
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.57
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 2/2/22 1620

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1+4</u>	<u>250 mL plastic</u>	<u>--</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-61E</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>47.69</u>	Time (WL): <u>14:55</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>cloudy, 63°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>76.03</u>	Water Column (ft): <u>25.34</u>	Well Volume (gal): <u>4.13</u>
Start Purge: <u>15:07</u>	End Purge: <u>15:42</u>	Top of Pump (ft): <u>71</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>7 L</u>		
Evacuation Equipment: <u>Bladder</u>	Purging Personnel: <u>Juste Wainwright</u>		
SmartTroll serial #: <u>821413</u>	LabTroll serial #: <u>Facit 131106029655</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
15:42	<u>clear</u>	<u>none</u>	<u>6.24</u>	<u>2439.9</u>	<u>0.11</u>	<u>17.06</u>	<u>4.5</u>	<u>1.93</u>	<u>47.30</u>	<u>200 L/min</u>
			<u>sampled @</u>		<u>15:42</u>					

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO = 0.8mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: <u>PZ-61E</u>	Sample Date/Time: <u>2.2.22/15:42</u>	Metals Date/Time: <u>2.2.22/15:42</u>
Duplicate: <u>-</u>	Dup Date/Time: <u>-</u>	Final Turbidity NTU: <u>1.93</u>
Field Blank: <u>EB-7</u>	Blank Date/Time: <u>2.2.22/16:18</u>	Turbidity Date/Time: <u>2.2.22/16:18</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>2</u>	<u>250 mL plastic</u>	<u>-</u>	<u>100-FPS, Cl, F, SO4</u>
<u>2</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>2</u>	<u>500 mL</u>	<u>-</u>	<u>TD 3</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Title Name: SCB Plant Branch		Page: <u>1 of 1</u>
Well ID #: <u>P2-60I</u>	Date: <u>02/03/21</u>	Water Level (ft): <u>37.83</u>	Time (VA): <u>10:05</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLOUDY</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>60.83</u>	Water Column (ft): <u>23.10</u>	Well Volume (gal): <u>3.75</u>
Start Purge: <u>10:09</u>	End Purge: <u>10:43</u>	Top of Pump (ft): <u>55.00</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>6.5</u>		
Evacuation Equipment: <u>BLOOMER MP-50 PUMP</u>	Purging Personnel: <u>DVANE FULTON</u>		
SmartTroll serial #: <u>550751</u>	Labette serial #: <u>110806011676</u>		

HAZOP

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R.B.TOC)	Pumping Rate
<u>10:43</u>	<u>CLAR</u>	<u>None</u>	<u>4.73</u>	<u>3,068.0</u>	<u>0.13</u>	<u>19.95</u>	<u>328.3</u>	<u>2.76</u>	<u>37.95</u>	<u>225.1 ^{CFR}</u>
<u>2 - SAMPLE 10:45</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: <u>P2-60I</u>	Sample Date/Time: <u>02/03/22 - 10:45</u>	Metals Date/Time: <u>02/03/22 - 10:45</u>
Duplicate: <u>—</u>	Dup Date/Time: <u>—</u>	Final Turbidity NTU: <u>0.97</u>
Field Blank: <u>—</u>	Blank Date/Time: <u>—</u>	Turbidity Date/Time: <u>02/03/22 11:00</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 ml plastic</u>	<u>—</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 ml plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>1</u>	<u>250 ml AMSC</u>	<u>HNO3</u>	<u>HAZAROUS</u>
<u>1</u>	<u>250 ml PLASTIC</u>	<u>—</u>	<u>FEROUS IRON</u>
<u>3</u>	<u>40ml VIALS</u>	<u>HCL</u>	<u>DOC</u>

Signature: Dvane Sub

FINAL FILTER TURB. 0.87 NTU

<u>1</u>	<u>125 ml PLASTIC</u>	<u>NAOH + ZINC</u>	<u>SULFIDE</u>
<u>1</u>	<u>125 ml PLASTIC</u>	<u>H2SO4</u>	<u>NO2 + NO3</u>



PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Well Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>P2-62E</u>	Date: <u>2/4/21</u>	Water Level (ft): <u>38.75</u>	Time (W.L.): <u>0934</u>
Physical Condition of Well:	<u>good</u>	Weather: <u>60° Rainy</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>70</u>	Water Column (ft): <u>31.25</u>	Well Volume (gal): <u>5.09</u>
Start Purge: <u>0939</u>	End Purge: <u>1005</u>	Top of Pump (ft): <u>45</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>0.4</u>	
Evacuation Equipment:	<u>Blower</u>	Purging Personnel: <u>Jan Bork</u>	
SmarTroll serial #:	<u>843 285</u>	LaMotte serial #: <u>1911 000 71494</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTIC)	Pumping Rate
<u>1001</u>	<u>Clear</u>	<u>None</u>	<u>5.79</u>	<u>1096.1</u>	<u>0.16</u>	<u>19.44</u>	<u>60.2</u>	<u>4.16</u>	<u>39.60</u>	<u>170 ^{gpm}</u>
				<u>Sample @</u>		<u>1010</u>				

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: P2-62E Sample Date/Time: 2/4/21 1010 Metals Date/Time: 2/4/21 1010
 Duplicate: Dup Date/Time: Final Turbidity NTU: 4.16
 Field Blank: Blank Date/Time: Turbidity Date/Time: 2/4/21 1010

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1+1</u>	<u>250 ml, plastic</u>	<u>"</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 ml, plastic</u>	<u>"</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: *Jan Bork*

PURGING AND SAMPLING FORM

Project #: 166825421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>PZ-63E</u>	Date: <u>02/04/22</u>	Water Level (ft): <u>35.92</u>	Time (W.): <u>09:40</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>RAIN/65°</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>70.00</u>	Water Column (ft): <u>66.08</u>	Well Volume (gal): <u>10.77</u>
Start Purge: <u>09:45</u>	End Purge: <u>10:15</u>	Top of Pump (ft): <u>65.00</u>	
Evaluation Method: <u>Low-Flow</u>	Volume Removed (L): <u>7.5</u>		
Evaluation Equipment: <u>BLADDER MP-50 PUMP</u>	Purging Personnel: <u>DVANE FULTON</u>		
SmorTroll serial #: <u>850751</u>	Lab Personnel #: <u>11050C00A431</u>		

HACT

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mv)	Turbidity (NTU)	DTW (ft BTOC)	Purging Rate
<u>10:15</u>	<u>CLSM</u>	<u>ODOR</u>	<u>5.89</u>	<u>596.87</u>	<u>0.14</u>	<u>19.21</u>	<u>22</u>	<u>0.93</u>	<u>39.68</u>	<u>250 gpm</u>
<u>SAMPLE 10:15</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L, (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: PZ-63E Sample Date/Time: 02/04/22 - 10:15 Metals Date/Time: 02/04/22 - 10:15
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.87
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 02/04/22 - 10:30

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 ml, plastic</u>	<u>—</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 ml, plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Dvane Fulton

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: 386W-25E	Date: 2/2/22	Water Level (ft): 9.27	Time (ML): 1414
Physical Condition of Well: good	Weather: 55° overcast		
Well Diameter (in): 2	Well Depth (ft): 24.41	Water Column (ft): 14.86	Well Volume (gal): 2.42
Start Purge: 1416	End Purge: 1443	Top of Pump (ft): 20.41	
Evacuation Method: Low-Flow	Volume Removed (L): 5.9 L		
Evaluation Equipment: REP Dedicated	Purging Personnel: Joe Booth		
SmartTroll serial #: 843285	LaMotte serial #: 181106072 497		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTIC)	Pumping Rate
1442	clear	None	6.23	490.66	0.26	17.51	52.6	2.74	9.36	1600 $\frac{m^3}{hr}$
				sampled @			1444			

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L, (whichever is greater, for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: 386W-25E Sample Date/Time: 2/2/22 1444 Metals Date/Time: 2/2/22 1444
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.74
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2/2/22 1444

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/IV Total + K, Na, Mg
1 (1)	250 mL plastic	-	TDS, Cl, F, SO4
1	500 mL plastic	-	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SCB Plant Branch		Page <u>1</u> of <u>1</u>
Well ID #: <u>BR6WC-27E</u>	Date: <u>02/04/22</u>	Water Level (ft): <u>9.25</u>	Time (M.): <u>08:17</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>RAIN/63°</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>33.41</u>	Water Column (ft): <u>24.13</u>	Well Volume (gal): <u>393</u>
Start Purge: <u>08:24</u>	End Purge: <u>08:49</u>	Top of Pump (ft): <u>28.41</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5.0</u>	
Evacuation Equipment: <u>DISLOCATED PUMP</u>		Purging Personnel: <u>DWAYNE GUYTON</u>	
SmartTroll serial #: <u>850751</u>		Labette serial #: <u>1105DC009431</u>	

HACH

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>08:49</u>	<u>CLEAR,</u>	<u>NOUS</u>	<u>5.97</u>	<u>490.87</u>	<u>0.75</u>	<u>18.50</u>	<u>171.9</u>	<u>0.44</u>	<u>8.35</u>	<u>200 gal/min</u>
<u>2 SAMPLE 08:50</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: <u>BR6WC-27E</u>	Sample Date/Time: <u>02/04/22-08:50</u>	Metals Date/Time: <u>02/04/22-08:50</u>
Duplicate: <u> </u>	Dup Date/Time: <u> </u>	Final Turbidity NTU: <u>0.41</u>
Field Blank: <u> </u>	Blank Date/Time: <u> </u>	Turbidity Date/Time: <u>02/04/22-09:11</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Dwayne Guyton

PURGING AND SAMPLING FORM

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BR6WC-2A	Date: 02/03/22	Water Level (ft): 10.10	Time (VL): 16:21
Physical Condition of Well:		Weather: CLOUDY	
Well Diameter (in): 2	Well Depth (ft): 23.63	Water Column (ft): 13.53	Well Volume (gal): 2.20
Start Purge: 16:30	End Purge: 16:57	Top of Pump (ft): 18.63	
Evacuation Method: Low-Flow		Volume Removed (L): 7.5	
Evacuation Equipment: DIORCASSO BR4000A		Purging Personnel: DVALE FULTON	
SmartTroll serial #: 850751		LaMotte serial #: 110400011670	

HVH

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
16:57	clear	none	4.23	650.75	0.46	19.37	328.4	0.51	10.20	300 ml/min
<p>2 SAMPLE 17:00</p>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3L, purge water, water level ± 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BR6WC-2A	Sample Date/Time: 02/03/22 - 17:10	Metals Date/Time: 02/03/22 - 17:10
Duplicate: DUP-3	Dup Date/Time: 02/03/22	Final Turbidity NTU: 0.51
Field Blank: _____	Blank Date/Time: _____	Turbidity Date/Time: 02/03/22 - 17:24

# Sample Bottles	Container	Preservative	Analyte(s)
2	250 ml, plastic	HNO3	Metals App III/IV Total + K, Na, Mg
2	250 ml, plastic	"	TDS, Cl, F, SO4
2	500 ml, plastic	"	Alkalinity (Bicarbonate + Carbonate)
4	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BR6WC-30E	Date: 02-02-22	Water Level (ft): 4.55	Time (WL): 10:04
Physical Condition of Well: GOOD	Weather: CLOUDY, 50°		
Well Diameter (in): 2	Well Depth (ft): 22.35	Water Column (ft): 17.80	Well Volume (gal): 290
Start Purge: 10:16	End Purge: 12:26	Top of Pump (ft): 18.00	
Evacuation Method: Low-Flow		Volume Removed (L): 39	
Evaluation Equipment: DIXIE PUMP MP-50		Purging Personnel: DVANK FULTON	
SmartTroll serial #: 850751		LaMotte serial #: 110800011670	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R BTOC)	Pumping Rate
12:26	Clear	None	6.34	1,498.5	0.39	17.64	78.3	4.97	4.82	300 $\frac{gal}{min}$
~ SAMPLE 12:30 ~										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L, (whichever is greater, for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WC-30E Sample Date/Time: 02/02/22-12:30 Metals Date/Time: 02/02/22-12:30
 Duplicate: DUP-2 Dup Date/Time: 02/02/22 Final Turbidity NTU: 4.79
 Field Blank: Blank Date/Time: Turbidity Date/Time: 02/02/22-12:54

# Sample Bottles	Container	Preservative	Analyte(s)
2	250 mL plastic	HNO3	Metals App III IV Total + R, Na, Mg
1	250 mL plastic	--	TDS, Cl, F, SO4
2	500 mL plastic	--	Alkalinity (Bicarbonate + Carbonate)
4	1 L plastic	HNO3	Radium 226/228

Signature: 

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SCB Plant Branch		Page: 1 of 1
Well ID #: BR6WC-325	Date: 02/02/22	Water Level (ft): 39.11	Time (WL): 13:09
Physical Condition of Well: DDD	Weather: CLOUDY		
Well Diameter (in): 2	Well Depth (ft): 48.00	Water Column (ft): 8.89	Well Volume (gal): 1.45
Start Purge: 13:20	End Purge: 14:52	Top of Pump (ft): 43	
Evacuation Method: Low-Flow		Volume Removed (L): 21.5	
Evacuation Equipment: OLIVETTI PUMP MFS-50		Purging Personnel: DAVIS FULTON	
SmarTroll serial #: 850751		LaMotte serial #: 110800011670	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTIC)	Pumping Rate
14:52	CLYAL	None	5.96	624.75	3.45	18.30	106.1	2.30	39.55	3.50 ^{gpm} _{min}

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 3%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3L, purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WC-325 Sample Date/Time: 02/02/22-14:55 Metals Date/Time: 02/02/22-14:55
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.10
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 02/02/22 15:10

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/ IV Total + K, Na, Mg
1	250 mL plastic	--	TDS, Cl, F, SO4
1	500 mL plastic	--	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature:

PURGING AND SAMPLING FORM

Project #: 106625421		Project Name/Site Name: SCB Plant Branch		Page: 1 of 1	
Well ID #: BRGUE-45		Date: 2/2/22	Water Level (ft): 10.96	Time (ML): 10:15	
Physical Condition of Well:			Weather: 45° overcast		
Well Diameter (in): 2	Well Depth (ft): 60.45	Water Column (ft): 49.09	Well Volume (gal): 8.08		
Start Purge: 10:17	End Purge: 10:40	Top of Pump (ft): 55			
Evacuation Method: Low-Flow			Volume Removed (L): 4.9		
Evacuation Equipment: QED Dedicated			Purging Personnel: Joe B...		
SmartTroll serial #: 843285			LaMotte serial #: 1911 0207149X		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
10:34	Clear	No	5.92	428.48	0.20	19.93	99.3	2.23	11.21	150 $\frac{1.5}{20}$
			Sampled			10:42				

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.5 ft; Temp and ORP record only

Sample Description

Sample ID: BRGUE-45 Sample Date/Time: 2/2/22 10:42 Metals Date/Time: 2/2/22 10:42
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.23
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2/2/22 10:42

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO3	Metals App III/ IV Total + K, Na, Mg
1 + 1	250 mL plastic	--	TDS, Cl, F, SO4
1	500 mL plastic	--	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature: [Signature]

PURGING AND SAMPLING FORM

Project # 106626421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID # <u>Browe-47</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>26.51</u>	Time (WL): <u>0955</u>
Physical Condition of Well: <u>good</u>	Weather: <u>47° overcast</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>92.0</u>	Water Column (ft): <u>65.49</u>	Well Volume (gal): <u>10.7</u>
Start Purge: <u>0920</u>	End Purge: <u>0924</u>	Top of Pump (ft): <u>87.0</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.7</u>	
Evacuation Equipment: <u>RED Jolicote</u>		Purging Personnel: <u>Jim Baer</u>	
SmartTroll serial #: <u>843285</u>		LaMotte serial #: <u>181102071464</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>936</u>	<u>Clear</u>	<u>No</u>	<u>5.75</u>	<u>2170.8</u>	<u>0.79</u>	<u>17.46</u>	<u>131.2</u>	<u>3.22</u>	<u>27.12</u>	<u>160 $\frac{L}{min}$</u>
			<u>sampled</u>		<u>Ⓢ</u>	<u>0940</u>				

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO = 0.8mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: Browe-47 Sample Date/Time: 2/2/22 Metals Date/Time: 2/2/22
 Duplicate: ✓ Dup Date/Time: ✓ Final Turbidity NTU: _____
 Field Blank: ✓ Blank Date/Time: ✓ Turbidity Date/Time: 2/2/22

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total = K, Na, Mg</u>
<u>1+1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Jim Baer

PURGING AND SAMPLING FORM

Project #: 106625421	Project Name/Site Name: SOB Plant Branch		Page: 1 of 1
Well ID #: B06W6-50	Date: 2/3/22	Water Level (ft): 37.85	Time (WL): 11:34
Physical Condition of Well: GOOD	Weather: 21.07, 61°F		
Well Diameter (in): 2	Well Depth (ft): 65.0	Water Column (ft): 27.15	Well Volume (gal): 4.43
Start Purge: 11:38	End Purge: 11:48	Top of Pump (ft): 60	
Evacuation Method: Low-Flow	Volume Removed (L): 6 L		
Evacuation Equipment: DEDICATED BUBBLER	Purging Personnel: Jane Hagelstrom		
SmartTroll serial #: 851913	Labette serial #: HACH 131106029685		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R BTOC)	Pumping Rate
11:48	clear	none	5.20	22575	0.32	20.48	116.3	1.01	38.0	300 $\frac{L}{min}$
								1.98		FIELD FILTERED
		sampled								

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \pm 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: <u>B06W6-50</u>	Sample Date/Time: <u>2-3-22/11:48</u>	Metals Date/Time: <u>2-3-22/11:48</u>
Duplicate: <u>-</u>	Dup Date/Time: <u>-</u>	Final Turbidity NTU: <u>1.01/1.98</u>
Field Blank: <u>-</u>	Blank Date/Time: <u>-</u>	Turbidity Date/Time: <u>2-3-22/11:48</u>

# Sample Bottles	Container	Preservative	Analyte(s)
2	250 mL plastic	HNO3	Metals App III/IV Total + K, Na, Mg + Fe
3	250 mL plastic	-	Acidimetry 105, Cl, F, SO4, Permanganate
1	500 mL plastic	-	Alkalinity (Diacetate + Carbonate) ²²⁷ TDS
2	1 L plastic	HNO3	Radium 226/228
3	400 mL amber	HCl	DOC (field filtered)
1	125 mL photo	H2SO4	NO2 + NO3
1	125 mL photo	NaOH + Zn Acetate	Sulfide

Signature: Jane Hagelstrom

PURGING AND SAMPLING FORM

Project #: 100025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6W1-52E</u>	Date: <u>2/2/22</u>	Water Level (ft): <u>39.29</u>	Time (WL): <u>1303</u>
Physical Condition of Well: <u>good</u>	Weather: <u>51° overcast</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>76.60</u>	Water Column (ft): <u>37.81</u>	Well Volume (gal): <u>6.08</u>
Start Purge: <u>1304</u>	End Purge: <u>1329</u>	Top of Pump (ft): <u>~71</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5.2</u>	
Evaluation Equipment: <u>GED Dedicated</u>		Purging Personnel: <u>Joe Birtu</u>	
SmarTroll serial #: <u>843235</u>		LaMotte serial #: <u>18100071494</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Purging Rate
<u>1328</u>	<u>clear</u>	<u>NO</u>	<u>6.35</u>	<u>245.07</u>	<u>0.32</u>	<u>19.24</u>	<u>20.1</u>	<u>2.51</u>	<u>39.75</u>	<u>200 $\frac{L}{min}$</u>

Stabilization Criteria: pH \pm 0.1 S.U.; Conductivity \pm 5%; Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only; no stabilization criteria); Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6W1-52E Sample Date/Time: 2/2/22 Metals Date/Time: 2/2/22
 Duplicate: Extra Radium Dup Date/Time: 2/2/22 Final Turbidity NTU: _____
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 4/2/22

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III IV Total + K, Na, Mg</u>
<u>1+1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

PURGING AND SAMPLING FORM

Project #: 160826421	Project Name/Site Name: SCB Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6WA-2S</u>	Date: <u>02/01/22</u>	Water Level (ft): <u>11:05</u>	Time (WL): <u>14:15</u>
Physical Condition of Well:		Weather: <u>CLSA, 61°</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>47.39</u>	Water Column (ft): <u>36.34</u>	Well Volume (gal): <u>5.92</u>
Start Purge: <u>14:26</u>	End Purge: <u>14:53</u>	Top of Pump (ft): <u>42.39</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>7.5</u>	
Evacuation Equipment: <u>OSOLCATSO PUMP</u>		Purging Personnel: <u>DVANE FULTON</u>	
SmartTrol serial #: <u>850751</u>		Labette serial #: <u>110800011670</u>	

14:11

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µmhos)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (LBTDC)	Pumping Rate
<u>14:53</u>	<u>CLSA</u>	<u>NONE</u>	<u>5.95</u>	<u>69.07</u>	<u>1.30</u>	<u>17.99</u>	<u>90.4</u>	<u>0.81</u>	<u>11.19</u>	<u>300 ^{gpd} / min</u>
<u>Z SAMPLE 14:55 Z</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 3%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO = 0.6mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WA-2S Sample Date/Time: 02/01/22-14:55 Metals Date/Time: 02/01/22-14:55
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.79
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 02/01/22-15:10

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>—</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Diane [Signature]

PURGING AND SAMPLING FORM

Project #: 100025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6WA-2I</u>	Date: <u>02/01/22</u>	Water Level (ft): <u>10.90</u>	Time (ML): <u>18:15</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLEAR, 59°</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>66.96</u>	Water Column (ft): <u>56.06</u>	Well Volume (gal): <u>9.14</u>
Start Purge: <u>12:22</u>	End Purge: <u>13:13</u>	Top of Pump (ft): <u>61.96</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>3.975</u>		
Evacuation Equipment: <u>VACUATION PUMP</u>	Purging Personnel: <u>DUANE FULTON</u>		
SmartTroll serial #: <u>Q50751</u>	LaMotte serial #: <u>110800011670</u>		

HACH

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOP)	Pumping Rate
<u>13:13</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.83</u>	<u>164.41</u>	<u>0.64</u>	<u>17.33</u>	<u>69.0</u>	<u>2.25</u>	<u>11.85</u>	<u>70 ^{ml} / min</u>
<u>SAMPLE 13:15</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WA-2I Sample Date/Time: 02/01/22-13:15 Metals Date/Time: 02/01/22-13:15
 Duplicate: Dup Date/Time: Final Turbidity NTU: 2.13
 Field Blank: Blank Date/Time: Turbidity Date/Time: 02/01/22-13:50

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u> </u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u> </u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Duane Fulton

PURGING AND SAMPLING FORM

Project #: 100025421	Project Name/Site Name: SCS Plant Branch		Page: <u>1 of 1</u>
Well ID #: <u>BR6WA-55</u>	Date: <u>02/01/22</u>	Water Level (ft): <u>11.19</u>	Time (WL): <u>08:56</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLEAR, 34°</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>43.01</u>	Water Column (ft): <u>31.82</u>	Well Volume (gal): <u>5.19</u>
Start Purge: <u>09:07</u>	End Purge: <u>09:38</u>	Top of Pump (ft): <u>38.00</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.75</u>	
Evacuation Equipment: <u>OSOKATSU PUMP</u>		Purging Personnel: <u>DUANE FULTON</u>	
SmartTroll serial #: <u>850751</u>		Labette serial #: <u>110800011670</u>	

HACH

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (S.MTC)	Pumping Rate
<u>09:38</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.39</u>	<u>145.58</u>	<u>2.16</u>	<u>16.51</u>	<u>129.3</u>	<u>3.15</u>	<u>11.21</u>	<u>150 $\frac{m^3}{min}$</u>
<u>SAMPLE TIME 09:40</u>										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2mg/L (whichever is greater; for DO = 0.5mg/L, record only; no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BR6WA-55 Sample Date/Time: 02/01/22 - 09:40 Metals Date/Time: 02/01/22 - 09:40
 Duplicate: Dup Date/Time: Final Turbidity NTU: 2.97 - 10.15
 Field Blank: Blank Date/Time: Turbidity Date/Time: 02/01/22 0:15

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Duane Fulton

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRDWA-5I</u>	Date: <u>02/01/22</u>	Water Level (ft): <u>11.07</u>	Time (M.): <u>10:21</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLSAZ, 38°</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>63.82</u>	Water Column (ft): <u>52.75</u>	Well Volume (gal): <u>8.60</u>
Start Purge: <u>10:25</u>	End Purge: <u>11:00/13</u>	Top of Pump (ft): <u>58.10</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5.95</u>	
Evacuation Equipment: <u>Oxigator Pump</u>		Purging Personnel: <u>DVANE FULTON</u>	
SmarTrol serial #: <u>850751</u>		Labette serial #: <u>110800011070</u> <u>HACH</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R.BTOS)	Pumping Rate
<u>11:13</u>	<u>CLSAZ</u>	<u>None</u>	<u>6.38</u>	<u>146.38</u>	<u>5.51</u>	<u>17.73</u>	<u>19.1</u>	<u>0.95</u>	<u>11.18</u>	<u>130 ^{gpm}</u>
<u>← SAMPLE 11:15 →</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRDWA-5I Sample Date/Time: 02/01/22-11:15 Metals Date/Time: 02/01/22-11:15
 Duplicate: Dup Date/Time: Final Turbidity NTU: 0.92
 Field Blank: Blank Date/Time: Turbidity Date/Time: 02/01/22-11:52

# Sample Bottles	Container	Preservative	Analysis(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: Dvane Fulton

PURGING AND SAMPLING FORM

Project #: 160625421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BR6WA-65</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>24.30</u>	Time (WL): <u>9:19</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>SUNNY 42°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>52.90</u>	Water Column (ft): <u>28.6</u>	Well Volume (gal): <u>4.66</u>
Start Purge: <u>9:35</u>	End Purge: <u>9:45</u>	Top of Pump (ft): <u>47</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>5 L</u>	
Evacuation Equipment: <u>DEDICATED PUMPS</u>		Purging Personnel: <u>JUDE WAGNER</u>	
SmartTroll serial #: <u>851413</u>		Labette Serial #: <u>HACH 131102029605</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µmhos)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R BTDC)	Pumping Rate
<u>9:45</u>	<u>clear</u>	<u>none</u>	<u>6.84</u>	<u>62.36</u>	<u>6.89</u>	<u>17.68</u>	<u>90.3</u>	<u>2.74</u>	<u>25.19</u>	<u>250 $\frac{gpm}{min}$</u>
<u>SAMPLE @ 9:45</u>										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: <u>BR6WA-65</u>	Sample Date/Time: <u>2.1.22/9:45</u>	Metals Date/Time: <u>2.1.22/9:45</u>
Duplicate: <u>-</u>	Dup Date/Time: <u>-</u>	Final Turbidity NTU: <u>2.74</u>
Field Blank: <u>-</u>	Blank Date/Time: <u>-</u>	Turbidity Date/Time: <u>2.1.22/9:45</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg, Fe, Mn</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>IDS[®] Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

WL = 49.54 1/11 @ 12:55

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: ___ of ___
Well ID #: P2-54	Date: 2/4/22	Water Level (ft): = 46.70	Time (WL): 08:30
Physical Condition of Well: <u>Good</u>	Weather: 63 °F <u>clear</u>		
Well Diameter (in): 2	Well Depth (ft): 52.0	Water Column (ft): = 6.2	Well Volume (gal): 0.85
Start Purge: 8:40	End Purge: 8:55	Top of Pump (ft): 46 <u>intake = 49</u>	
Evacuation Method: Low-Flow		Volume Removed (L): ~ 1 L	
Evacuation Equipment: <u>DEDICATED BLADDER</u>		Purging Personnel: <u>JOE WAGNER/MS</u>	
SmartTroll serial #: <u>861913</u>		Labmate Serial #: <u>131102029608</u>	

purging 3 well vol = 3.2 L * 3 = 9.6 L

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R.B.TOC)	Pumping Rate
8:55	<u>clear</u>	<u>none</u>	<u>6.98</u>	<u>635.70</u>	<u>8.53</u>	<u>17.60</u>	<u>139.8</u>	<u>2/000</u>	<u>BTOP</u>	<u>100 $\frac{L}{min}$</u>
<u>well dry; fill - dedicated pump; no sample</u>										
9:05	-	-	-	-	-	-	-	-	<u>50.10</u>	-
11:10	-	-	-	-	-	-	-	-	<u>49.89</u>	-

Stabilization Criteria: pH \pm 0.1 S.U.; Conductivity \pm 5%; Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria); Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \pm 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: NONE Sample Date/Time: Metals Date/Time:
 Duplicate: Dup Date/Time: Final Turbidity NTU: 2/000
 Field Blank: Blank Date/Time: Turbidity Date/Time: 2.4.22 / 8:55

# Sample Bottles	Container	Preservative	Analyte(s)
	250 ml, plastic	HNO3	Metals App. II/IV-Total Cr, Na, Mg, B, C ₂
	250 ml, plastic	"	TDS, Cl, F, SO4
	500 ml, plastic	"	Alkalinity (Dibarbonate + Carbonate) <u> </u>
	1 L plastic	HNO3	Radon-220/226 <u> </u>

Signature: _____

well purge to dry, no sample

PURGING AND SAMPLING FORM

Project #: 166525421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BAGWC-173</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>5.94</u>	Time (ML): <u>14:15</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Sunny, 63°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>6.44</u> 9.04	Water Column (ft): <u>3.1</u>	Well Volume (gal): <u>0.5</u> 0.8
Start Purge: <u>12:45</u> 14:43	End Purge:	Top of Pump (ft): <u>6.2</u>	
Evacuation Method: <u>Low Flow</u>	Volume Removed (L): <u>7.7 L</u>		
Evacuation Equipment: <u>Peristaltic</u>	Purging Personnel: <u>Jose Wacziarg</u>		
SmartTroll serial #: <u>851413</u>	LaMotte serial #: <u>Hand 131101029655</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOS)	Pumping Rate
<u>1453</u>	<u>REMOVED</u>	<u>TRANSDUCER - ROOT GALL IN WELL - FLOW RATE TO</u>								<u>200 L/min</u>
		<u>5680 at /200 = 28.4 minutes to circulate 3 well vol.</u>								
<u>1528</u>	<u>CLEAR</u>	<u>NONE</u>	<u>6.37</u>	<u>498.24</u>	<u>1.79</u>	<u>15.53</u>	<u>90.6</u>	<u>3.2</u>	<u>6.19</u>	<u>200 L/min</u>
		<u>SAMPLE @ 1528</u>								

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3L, purge water, water level ± 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BAGWC-173 Sample Date/Time: 2.1.22/1538 Metals Date/Time: 2.1.22/1538
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 3.2
 Field Blank: EB-1 Blank Date/Time: 2.1.22/1615 Turbidity Date/Time: 2.1.22/1538

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>2</u>	<u>250 ml, plastic</u>	<u>"</u>	<u>TDS, Cl, F, SO4</u>
<u>2</u>	<u>500 ml, plastic</u>	<u>"</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>4</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

3 well volume = 0.5 * 3 = 0.24 gal @ 0.4 ft
0.5 gal @ 5.68 L



PURGING AND SAMPLING FORM

Project #: 166825421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BAGWC-335</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>8.94</u>	Time (MM): <u>10:38</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>SUNNY, 45°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>31.66</u>	Water Column (ft): <u>22.72</u>	Well Volume (gal): <u>3.70</u>
Start Purge: <u>10:42</u>	End Purge: <u>11:02</u>	Top of Pump (ft): <u>26</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>5 L</u>		
Evacuation Equipment: <u>DEDICATED BARRIER</u>	Purging Personnel: <u>Jane Wadsworth</u>		
SmartTroll serial #: <u>851413</u>	LabMent Serial #: <u>Inst 13110C029655</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTWC)	Pumping Rate
<u>11:02</u>	<u>CLEAR</u>	<u>NONE</u>	<u>4.82</u>	<u>833.94</u>	<u>0.07</u>	<u>19.09</u>	<u>190.6</u>	<u>0.96</u>	<u>9.00</u>	<u>250 $\frac{m^3}{hr}$</u>
				<u>SAMPLES @</u>	<u>11:02</u>					

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater, for DO \leq 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L, purge water, water level \leq 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BAGWC-335 Sample Date/Time: 2.1.22/11:02 Metals Date/Time: 2.1.22/11:02
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 0.96
 Field Blank: FB-1 Blank Date/Time: 2.1.22/11:30 Turbidity Date/Time: 2.1.22/11:02

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>2</u>	<u>250 ml, plastic</u>	<u>—</u>	<u>TOC, Cl, F, SO4</u>
<u>2</u>	<u>250 ml, plastic</u>	<u>—</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>2</u>	<u>500 ml plastic</u>	<u>—</u>	<u>TDS</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100025421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID # <u>BROWL-312</u>	Date: <u>4/17/22</u> <u>02/01/22</u>	Water Level (ft): <u>2.63</u>	Time (M): <u>12:15</u>
Physical Condition of Well: <u>good</u>	Weather: <u>65°F SUNNY</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>52.64</u>	Water Column (ft): <u>50.01</u>	Well Volume (gal): <u>5.15</u>
Start Purge: <u>1225</u>	End Purge: <u>1250</u>	Top of Pump (ft): <u>48</u>	
Evaluation Method: <u>Low-Flow</u> <u>deducted</u>	Volume Removed (L): <u>10.8</u>		
Evaluation Equipment: <u>deducted</u>	Purging Personnel: <u>[Signature]</u>		
SmartTroll serial #: <u>850 767</u>	LabNet serial #: <u>1205°C P17749</u>		

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Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1250</u>	<u>Clear</u>	<u>None</u>	<u>5.87</u>	<u>614.12</u>	<u>0.15</u>	<u>19.05</u>	<u>745</u>	<u>0.67</u>	<u>2.63</u>	<u>35%</u>
<u>BS</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L, (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU, Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BROWL-312 Sample Date/Time: 2-1-22 13:00 Metals Date/Time: _____
 Duplicate: Dup-1 Dup Date/Time: 2-1-22 13:00 Final Turbidity NTU: 0.67
 Field Blank: — Blank Date/Time: — Turbidity Date/Time: 2-1-22 13:50

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 ml, plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>2</u>	<u>250 ml, plastic</u>	<u>"</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>600 ml, plastic</u>	<u>"</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L, plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BRCW-308</u>	Date: <u>2-1-22</u>	Water Level (ft): <u>1.88</u>	Time (WL): <u>1732</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>SUNNY 65°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>35.34</u>	Water Column (ft): <u>33.46</u>	Well Volume (gal): <u>5.43</u>
Start Purge: <u>1338</u>	End Purge: <u>1410</u>	Top of Pump (ft): <u>30.34</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>7</u>		
Evacuation Equipment: <u>Reculator</u>	Purging Personnel: <u>[Signature]</u>		
SmartTroll serial #: <u>850767</u>	LabTroll serial #: <u>120502 P17749</u>		

HW4

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOD)	Pumping Rate
<u>1410</u>	<u>Clear</u>	<u>None</u>	<u>6.09</u>	<u>607.96</u>	<u>0.21</u>	<u>18.11</u>	<u>70.8</u>	<u>0.87</u>	<u>1.89</u>	<u>2.50</u>
<u>PS</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater), for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ± 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BRCW-355 Sample Date/Time: 2-1-22/1415 Metals Date/Time: _____

Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 0.87

Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2-1-22/1410

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>2</u>	<u>250 mL plastic</u>	<u>==</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>==</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 100020421	Project Name/Site Name: SCS Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BACWC-365</u>	Date: <u>2/1/23</u>	Water Level (ft): <u>3.73</u>	Time (WL): <u>12:50</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Sunny, 53°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>34.02</u>	Water Column (ft): <u>50.29</u>	Well Volume (gal): <u>4.94</u>
Start Purge: <u>13:03</u>	End Purge: <u>13:23</u>	Top of Pump (ft): <u>29</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L): <u>5 L</u>		
Evacuation Equipment: <u>PERISTALTIC</u>	Purging Personnel: <u>Jane Wronowski</u>		
SmorTroll serial #: <u>251413</u>	LaMotte serial #: <u>Hand 131106029655</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
13:13	<u>clear</u>	<u>none</u>	<u>5.65</u>	<u>596.52</u>	<u>2.47</u>	<u>14.94</u>	<u>131.8</u>	<u>1.42</u>	<u>3.80</u>	<u>250 $\frac{gal}{min}$</u>
				<u>508.00</u>	<u>0</u>	<u>13:23</u>				

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 3%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO \leq 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU, Purge volume \geq 3L, purge water, water level \leq 0.3 ft. Temp and ORP record only

Sample Description

Sample ID: BACWC-365 Sample Date/Time: 2.1.23/13:13 Metals Date/Time: 2.1.23/13:23
 Duplicate: Dup Date/Time: Final Turbidity NTU: 1.42
 Field Blank: Blank Date/Time: Turbidity Date/Time: 2.1.23/13:23

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV Total + K, Na, Mg</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>

Signature: [Signature]

PURGING AND SAMPLING FORM

Project #: 166625421	Project Name/Site Name: SCS Plant Branch		Page: 1 of 1
Well ID #: BRWC-375	Date: 02-02-22	Water Level (ft): 52.10	Time (ML): 08:31
Physical Condition of Well: GOOD		Weather: CLOUDY, 44°	
Well Diameter (in): 2	Well Depth (ft): 68.73	Water Column (ft): 16.63	Well Volume (gal): 2.71
Start Purge: 08:42	End Purge: 09:17	Top of Pump (ft): 63.73	
Evacuation Method: Low-Flow		Volume Removed (L): 4.125	
Evacuation Equipment: DIGITAL PUMP		Purging Personnel: DANK FULTON	
SmartTroll serial #: 850751		SalMote serial #: 11800011670	

HACH

Purge Data/Field Parameters

Time	Color & Appearance	Color	pH (S.U.)	Cond (µS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft B100)	Pumping Rate
09:17	CLEAR	NDMX	5.80	55.39	7.99	16.87	142	0.32	52.58	125 gpm

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater), for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L, purge water, water level ≤ 0.3 ft, Temp and ORP record only

Sample Description

Sample ID: BRWC-375 Sample Date/Time: 02/02/22-09:20 Metals Date/Time: 02/02/22-09:20
 Duplicate: Dup Date/Time: Final Turbidity NTU: 0.37
 Field Blank: Blank Date/Time: Turbidity Date/Time: 02/02/22-09:34

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 ml, plastic	HNO3	Metals App III/IV Total + K, Na, Mg
1	250 ml, plastic	"	TDS, Cl, F, SO4
1	600 ml, plastic	"	Alkalinity (Bicarbonate + Carbonate)
2	1 L plastic	HNO3	Radium 226/228

Signature:

PURGING AND SAMPLING FORM

Project #: 100625421	Project Name/Site Name: SC5 Plant Branch		Page: <u>1</u> of <u>1</u>
Well ID #: <u>BROW-383</u>	Date: <u>2/1/22</u>	Water Level (ft): <u>21.05</u>	Time (ML): <u>1430</u>
Physical Condition of Well:	<u>9 in</u>	Weather: <u>W CLOUD</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>43.66</u>	Water Column (ft): <u>22.61</u>	Well Volume (gal): <u>3.62</u>
Start Purge: <u>1437</u>	End Purge: <u>1508</u>	Top of Pump (ft): <u>38.66</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>6.32 L</u>	
Evacuation Equipment: <u>dedicated</u>		Purging Personnel: <u>Joe Bunker</u>	
SmartTroll serial #: <u>843285</u>		LaMotte serial #: <u>1411060 714H</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R/BTOC)	Pumping Rate
1507	<u>clear</u>	<u>no</u>	<u>4.06</u>	<u>809.80</u>	<u>1.17</u>	<u>18.37</u>	<u>141.5</u>	<u>1.72</u>	<u>21.74</u>	<u>160 $\frac{m^3}{min}$</u>
				<u>sampled @</u>		<u>1515</u>				

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 8%, Dissolved Oxygen \pm 10% or 0.2Mg/L, (whichever is greater; for DO = 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: BROW-383 Sample Date/Time: 2/1/22 ~~1515~~ ¹⁵¹⁵ Metals Date/Time: 2/1/22 ¹⁵¹⁵
 Duplicate: Extra Radium Dup Date/Time: 2/1/22 ¹⁵¹⁵ Final Turbidity NTU: 1.72
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 2/1/22 ¹⁵¹⁵

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV Total + K, Na, Mg</u>
<u>1 + 1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>TDS, Cl, F, SO4</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Alkalinity (Bicarbonate + Carbonate)</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

Plant Branch Surface Water Samples 02/03/2022

Sample ID	Total Depth (ft)	Sample Depth (ft)	Time	Temp(F)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
LR-1 (surface)	26.3	surface	1047	8.90	6.56	83.4	11.14	24.8	0.05	33.178603, -83.317692
LR-1 (mid)		13.0	1052	8.92	6.59	81.1	11.12	24.5	0.05	
LR-1 (bottom)		25.0	1058	8.93	6.86	76.8	11.54	24.3	0.05	
LR+8A (surface)	2.2	1.0	1129	9.45	6.59	94.1	11.21	19.6	0.053	33.188793, -83.298479
LR+9A (surface)	9.8	4.5	1138	9.60	6.73	85.9	11.89	16.5	0.054	33.190136, -83.297139
LR+8 (surface)	18.9	surface	1118	8.99	9.59	109.7	11.00	17.5	0.051	33.187322, -83.296928
LR+8 (mid)		9.0	1121	9.37	6.67	99.8	11.13	18.8	0.052	
LR+8 (bottom)		17.0	1124	9.21	6.59	99.1	11.19	17.6	0.051	
LR+9 (surface)	34.5	surface	1108	9.30	6.60	91.2	11.57	12.5	0.052	33.189500, -83.295199
LR+9 (mid)		17.0	1110	9.38	6.60	91.7	11.43	12.4	0.051	
LR+9 (bottom)		33.0	1112	9.24	6.55	91.4	11.54	12.3	0.052	
LR-10 (surface)	35.2	surface	1048	9.78	6.72	69.4	12.25	10.4	0.053	33.188519, -83.284506
LR-10 (mid)		18.0	1052	9.38	6.69	75.2	11.80	10.1	0.052	
LR-10 (bottom)		34.0	1055	9.47	6.07	74.3	10.30	10.3	0.051	

APPENDIX A

Well Inspection Logs



MEMORANDUM

Date: January 10, 2022
To: Joju Abraham – Georgia Power
CC: Ben Hodges, Regina Linch
From: Brian Steele/Rachel Kirkman
Subject: Plant Branch Unit AP-BCD and AP-E - Well Maintenance and Repair Documentation
Georgia Power Company

Golder Associates, Inc. (Golder) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Branch during the 2021 semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Plant Branch/ AP-E	9/20/2021	BRGWA-5S	Overgrown
Plant Branch/ AP-E	9/20/2021	BRGWA-5I	Overgrown
Plant Branch/AP-B	9/20/2021	IW-B-2	Overgrown

WELL INSPECTION FORM
PLANT Branch

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning cap and lock and in good condition (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment d. Other (please specify) (S) for Satisfactory Discrepancies identified below
	↑ or ↓					
BRGWA-2S	↑BOTH	S	S	S	S	S
BRGWA-2I	↑BOTH	S	S	S	S	S
BRGWA-5S	↑BOTH	Overgrown	S	S	S	S
BRGWA-5I	↑BOTH	Overgrown	S	S	S	S
BRGWA-6S	↑BOTH	S	S	S	S	S
BRGWA-12S	↑BCD	S	S	S	S	S
BRGWA-12I	↑BCD	S	S	S	S	S
BRGWA-23S	↑BCD	S	S	S	S	S
BRGWC-25I	↓BCD	S	S	S	S	S
BRGWC-27I	↓BCD	S	S	S	S	S
BRGWC-29I	↓BCD	S	S	S	S	S
BRGWC-30I	↓BCD	S	S	S	S	S
BRGWC-32S	↓BCD	S	S	S	S	S
BRGWC-33S	↓E	S	S	S	S	S
BRGWC-34S	↓E	S	S	S	S	S
BRGWC-35S	↓E	S	S	S	S	S
BRGWC-17S	↓E	S	S	S	S	no pump (9 ft deep)
BRGWC-36S	↓E	S	S	S	S	no pump (perched)
BRGWC-37S	↓E	S	S	S	S	S
BRGWC-38S	↓E	S	S	S	S	S
BRGWC-45	↓BCD	S	S	S	S	pump installed
BRGWC-47	↓BCD	S	S	S	S	pump installed
BRGWC-50	↓BCD	S	S	S	S	pump installed

WELL INSPECTION FORM
PLANT Branch

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning cap and lock and in good condition (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment d. Other (please specify) (S) for Satisfactory Discrepancies identified below
	↑ or ↓					
BRGWC-52I	↓BCD	S	S	S	S	pump installed
PZ-50D	↓BCD	S	S	S	S	no pump, inadequate recharge to perform low flow
PZ-51S	↓BCD	S	S	S	S	no pump
PZ-51I	↓BCD	S	S	S	S	no pump
PZ-51D	↓BCD	S	S	S	S	no pump
PZ-1S		S	S	S	S	--
PZ -1I		S	S	S	S	--
PZ-1D		S	S	S	S	--
PZ -3S		S	S	S	S	--
PZ -3I		S	S	S	S	--
PZ- 3D		S	S	S	S	--
PZ- 4S		S	S	S	S	--
PZ - 4I		S	S	S	S	--
PZ-7S		S	S	S	S	--
PZ- 8S		S	S	S	S	--
PZ-9S		S	S	S	S	--
PZ-10S		S	S	S	S	--
PZ-11S		S	S	S	S	--
PZ-12D		S	S	S	S	--
PZ-13S		S	S	S	S	--
PZ-14S		S	S	S	S	--
PZ -14I		S	S	S	S	--

WELL INSPECTION FORM
PLANT Branch

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning cap and lock and in good condition (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment d. Other (please specify) (S) for Satisfactory Discrepancies identified below
	↑ or ↓					
PZ-15S		S	S	S	S	--
PZ -15I		S	S	S	S	--
PZ-16S		S	S	S	S	--
PZ -16I		S	S	S	S	--
PZ -17I		S	S	S	S	--
PZ-18S		S	S	S	S	--
PZ -18I		S	S	S	S	--
PZ-19S		S	S	S	S	--
PZ -19I		S	S	S	S	--
PZ-20S		S	S	S	S	--
PZ -20I		S	S	S	S	--
PZ-21S		S	S	S	S	--
PZ -21I		S	S	S	S	--
PZ-22S		S	S	S	S	--
BRGWC-24S		S	S	S	S	--
PZ-26I		S	S	S	S	--
PZ-28I		S	S	S	S	--
PZ-31S		S	S	S	S	--
PZ-23I		S	S	S	S	--
PZ-40S		S	S	S	S	--
PZ-41S		S	S	S	S	--
PZ-42S		S	S	S	S	--
PZ-43		S	S	S	S	--

WELL INSPECTION FORM
PLANT Branch

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning cap and lock and in good condition (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment d. Other (please specify) (S) for Satisfactory Discrepancies identified below
	↑ or ↓					
PZ-44		S	S	S	S	--
PZ-46		S	S	S	S	--
PZ-48		S	S	S	S	--
PZ-49		S	S	S	S	--
PZ-53D		S	S	S	S	--
PZ-54		S	S	S	S	--
IW-C-1		S	S	S	S	--
IW-B-1		S	S	S	S	S
IW-D-1		S	S	S	S	--
IW-E-1		S	S	S	S	--
IW-B-2		Overgrown	S	S	S	S
IW-C-2		S	S	S	S	--
IW-D-2		S	S	S	S	--

WELL INSPECTION FORM
PLANT Branch

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning cap and lock and in good condition (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment d. Other (please specify) (S) for Satisfactory Discrepancies identified below
	↑ or ↓					
PB-1S		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-2D		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-4S		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-4D		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-7S		Labeled with Permanent Marker Only / Overgrown	No Protective Casing	No Pad	S	--
PB-8D		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-8S		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-10D		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-10S		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-13D		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--
PB-13S		Labeled with Permanent Marker Only	No Protective Casing	No Pad	S	--

NOTES:

1. Provide pictures of any deficiencies.
2. Notify SCS /GPC of any noted deficiencies.
3. Provide additional comments as necessary to address any deficiencies.

Issue resolved

Requires immediate attention

Memo r a n d u m

Date: 05 July 2022

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

From: Joe Ivanowski and Lauren Fitzgerald,
Geosyntec Consultants

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

Geosyntec Consultants, Inc. (Geosyntec) has prepared this memorandum to provide documentation of groundwater monitoring well and piezometer inspections and repair/maintenance, if needed, performed at Plant Branch during the first semiannual reporting period of 2022. Inspections were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells.

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 1/31/2022. The groundwater monitoring well network was observed to be well maintained and in good condition; no deficiencies requiring maintenance or repair were identified.

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-2S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-2I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-5S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-5I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-6S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-12S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-12I

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWA-23S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-251

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| B Is the well properly vented for equilibration of air pressure? | X | | |
| C Is the survey point clearly marked on the inner casing? | X | | |
| D Is the depth of the well consistent with the original well log? Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |
| E Is the depth of the well consistent with the original well log? Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-271

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-291

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-301

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-32S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-33S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-34S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-35S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch
 Permit Number:
 Well ID: BRGWC-17S
 Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch
 Permit Number:
 Well ID: BRGWC-36S
 Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-37S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-38S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-45

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-47

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-50

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: BRGWC-521

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-50D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-51S

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-51I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-51D

Date: 1/31/22

	Yes	No	N/A
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1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-571

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-58I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-59I

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-60I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-61I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-62I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-63I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-1S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-1I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-1D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-3S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-31

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-3D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-4S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-4I

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-7S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | |
|----------|--|---|
| A | Is the well visible and accessible? | X |
| B | Is the well properly identified with correct well ID? | X |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- | | | |
|----------|---|---|
| A | Is the protective casing free from apparent damage and able to be secured? | X |
| B | Is the casing free of degradation or deterioration? | X |
| C | Does the casing have a functioning weep hole? | X |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| E | Is the well locked and is the lock in good condition? | X |

3) Surface Pad

- | | | |
|----------|---|---|
| A | Is the well pad in good condition (not cracked/broken)? | X |
| B | Is the well pad sloped away from the protective casing? | X |
| C | Is the well pad in complete contact with the ground surface and stable? | X |
| D | Is the well pad in complete contact with the protective casing? | X |
| E | Is the pad surface clean (not covered with sediment or debris)? | X |

4) Internal Casing

- | | | |
|----------|---|---|
| A | Does the cap prevent entry of foreign material into the well? | X |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X |
| C | Is the well properly vented for equilibration of air pressure? | X |
| D | Is the survey point clearly marked on the inner casing? | X |
| E | Is the depth of the well consistent with the original well log? | X |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |

5) Sampling: Groundwater Wells Only

- | | | |
|----------|--|---|
| A | Does water recharge adequately when purged? | X |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| C | Does the well require redevelopment (low flow/turbidity)? | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-8S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-9S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-10S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-11S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-12D

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-13S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-14S

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-14I

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-15S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-15I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-16S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-16I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-171

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-18S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-18I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-19S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-19I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-20S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-20I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-21S

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-211

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-24S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-26I

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-28I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-31S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-23I

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-39

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-40S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-41S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-42S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-43

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-44

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-46

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-48

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-49

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-52D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-53D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-54

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-55

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PZ-56

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-C-1

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-B-1

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-D-1

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-E-1

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-B-2

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-C-2

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: IW-D-2

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-1S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-2D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-4S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-4D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-7S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-8S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-8D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-10S

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-10D

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|--|---|---|--|
| A Does water recharge adequately when purged? | X | | |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| C Does the well require redevelopment (low flow/turbidity)? | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-13S

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-13D

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-15

Date: 1/31/22

	Yes	No	N/A
<u>1) Location/Identification</u>			
A Is the well visible and accessible?	X		
B Is the well properly identified with correct well ID?	X		
C Is the well in a high traffic area and does the well require protection from traffic?		X	
D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
A Is the protective casing free from apparent damage and able to be secured?	X		
B Is the casing free of degradation or deterioration?	X		
C Does the casing have a functioning weep hole?	X		
D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
A Is the well pad in good condition (not cracked/broken)?	X		
B Is the well pad sloped away from the protective casing?	X		
C Is the well pad in complete contact with the ground surface and stable?	X		
D Is the well pad in complete contact with the protective casing?	X		
E Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
A Does the cap prevent entry of foreign material into the well?	X		
B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C Is the well properly vented for equilibration of air pressure?	X		
D Is the survey point clearly marked on the inner casing?	X		
E Is the depth of the well consistent with the original well log?	X		
F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
<u>5) Sampling: Groundwater Wells Only</u>			
A Does water recharge adequately when purged?	X		
B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-16

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|--|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | X | |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|--|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-17

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-18

Date: 1/31/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- | | | | |
|----------|--|---|---|
| A | Is the well visible and accessible? | X | |
| B | Is the well properly identified with correct well ID? | X | |
| C | Is the well in a high traffic area and does the well require protection from traffic? | | X |
| D | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | |

2) Protective Casing

- | | | | |
|----------|---|---|--|
| A | Is the protective casing free from apparent damage and able to be secured? | X | |
| B | Is the casing free of degradation or deterioration? | X | |
| C | Does the casing have a functioning weep hole? | X | |
| D | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | |
| E | Is the well locked and is the lock in good condition? | X | |

3) Surface Pad

- | | | | |
|----------|---|---|--|
| A | Is the well pad in good condition (not cracked/broken)? | X | |
| B | Is the well pad sloped away from the protective casing? | X | |
| C | Is the well pad in complete contact with the ground surface and stable? | X | |
| D | Is the well pad in complete contact with the protective casing? | X | |
| E | Is the pad surface clean (not covered with sediment or debris)? | X | |

4) Internal Casing

- | | | | |
|----------|---|---|--|
| A | Does the cap prevent entry of foreign material into the well? | X | |
| B | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | |
| C | Is the well properly vented for equilibration of air pressure? | X | |
| D | Is the survey point clearly marked on the inner casing? | X | |
| E | Is the depth of the well consistent with the original well log? | X | |
| F | Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | |

5) Sampling: Groundwater Wells Only

- | | | | |
|----------|--|---|---|
| A | Does water recharge adequately when purged? | X | |
| B | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| C | Does the well require redevelopment (low flow/turbidity)? | | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name: Plant Branch

Permit Number:

Well ID: PB-19

Date: 1/31/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- | | | | |
|--|---|---|--|
| A Is the well visible and accessible? | X | | |
| B Is the well properly identified with correct well ID? | X | | |
| C Is the well in a high traffic area and does the well require protection from traffic? | | X | |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | |

2) Protective Casing

- | | | | |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured? | X | | |
| B Is the casing free of degradation or deterioration? | X | | |
| C Does the casing have a functioning weep hole? | X | | |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X | | |
| E Is the well locked and is the lock in good condition? | X | | |

3) Surface Pad

- | | | | |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)? | X | | |
| B Is the well pad sloped away from the protective casing? | X | | |
| C Is the well pad in complete contact with the ground surface and stable? | X | | |
| D Is the well pad in complete contact with the protective casing? | X | | |
| E Is the pad surface clean (not covered with sediment or debris)? | X | | |

4) Internal Casing

- | | | | |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well? | X | | |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X | | |
| C Is the well properly vented for equilibration of air pressure? | X | | |
| D Is the survey point clearly marked on the inner casing? | X | | |
| E Is the depth of the well consistent with the original well log? | X | | |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X | | |

5) Sampling: Groundwater Wells Only

- | | | | |
|---|---|---|--|
| A Does water recharge adequately when purged?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | X | |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

APPENDIX A

Data Validation Reports

Appendix A
Quality Control Review of Analytical Data submitted by
Pace Analytical
Plant Branch CCR Ash Pond BCD

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC for groundwater samples collected at the Plant Branch CCR Ash Pond AP-BCD between September 21, 2021 and September 28, 2021. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and IV. Test methods included Inductively Coupled Plasma - Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315) and Radium-228 (USEPA Method 9320). Additional analysis were conducted in select samples, including Alkalinity (Standard Methods SM2320B), and Total Nitrogen as Nitrate and Nitrite (Method 353.2).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision:	Laboratory goals for precision were met.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met except for mercury results in SDG 92563761 as described in the qualifications sections below.
Sensitivity:	Project goals for detection limits were met. Certain samples were diluted due to the concentration of the target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

Holding Times:	All holding time requirements were met in accordance with specific analytical methods.
Additional Comments:	Detections were found in certain blank results, as described in the qualification sections below.
Completeness:	There were no rejected analytical results for this event, resulting in a completion of 100%.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of low precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory.

- J** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- U** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in SDGs 92562855, 92562860, 92563208, and 92563761 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- The mercury result in sample PZ-51I was qualified as estimated non-detect value (JJ) since the associated matrix spike and/or matrix spike duplicate (MS/MSD) recovery was below the QC criteria and the analyte was not detected in the associated parent sample.
- Certain mercury results were qualified as non-detect (U) as the analyte was detected at a similar level in an associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the results were qualified as non-detect (U) and the results were raised to the RL.
- The radium-228 result in sample BRGWC-52I was qualified as non-detect (U) as the analyte was detected at a similar level in an associated blank sample. As shown in Table 2, the results were qualified as non-detect (U).
- The total Radium result in sample BRGWC-52I was qualified as estimated biased high (J+) as one of the corresponding radium isotopes was qualified U.

Golder reviewed the data from samples collected at the Plant Branch CCR Ash Ponds between September 21, 2021 and September 28, 2021 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

Paar J.G. and Porterfield D.R., April 1997, US Department of Energy, *Evaluation of Radiochemical Data Usability*.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data By Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy*, Revision 2.0.

USEPA, January 2017, National, Office of Superfund Remediation and Technology Innovation, *National Functional Guidelines for Inorganic Superfund Methods Data Review*, Revision 0.0.

TABLE 1
Sample Summary Table - Pond BCD
SCS Plant Branch

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses											
						Field pH	Total Metals (EPA 6020B)	Calcium (EPA 6010D)	Mercury (SW7470A)	Anions (EPA 300.0)	TDS (SM2540C-2011)	Alkalinity (2320B)	Nitrogen, NO2 + NO3 (353.2)	Nitrogen 353.2	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)	
92562855	BRGWA-12S	9/21/2021	92562855001	GW	-	X	X	X	X	X	X						
92562855	BRGWA-12I	9/21/2021	92562855002	GW	-	X	X	X	X	X	X						
92562855	BRGWA-23S	9/22/2021	92562855003	GW	-	X	X	X	X	X	X						
92563226	BRGWC-45	9/23/2021	92563226001	GW	-	X	X	X	X	X	X						
92563226	BRGWC-47	9/23/2021	92563226002	GW	-	X	X	X	X	X	X						
92563226	BRGWC-50	9/27/2021	92563226003	GW	-	X	X	X	X	X	X	X	X				
92563226	DUP-2	9/27/2021	92563226004	GW	FD (BRGWC-50)	X	X	X	X	X	X	X	X				
92563226	BRGWC-25I	9/28/2021	92563226005	GW	-	X	X	X	X	X	X						
92563226	BRGWC-27I	9/28/2021	92563226006	GW	-	X	X	X	X	X	X						
92563226	BRGWC-29I	9/28/2021	92563226007	GW	-	X	X	X	X	X	X						
92563226	BRGWC-30I	9/28/2021	92563226008	GW	-	X	X	X	X	X	X						
92563226	BRGWC-32S	9/28/2021	92563226009	GW	-	X	X	X	X	X	X						
92563226	EB-2	9/28/2021	92563226010	WQ	EB (BRGWC-27I)	X	X	X	X	X	X						
92563226	FB-2	9/28/2021	92563226011	WQ	FB (BRGWC-29I)	X	X	X	X	X	X						
92563226	DUP-3	9/28/2021	92563226012	GW	FD (BRGWC-30I)	X	X	X	X	X	X						
92563226	BRGWC-52I	9/28/2021	92563226013	GW	-	X	X	X	X	X	X	X	X				
92563226	FB-3	9/28/2021	92563226014	WQ	FB (BRGWC-52I)	X	X	X	X	X	X	X	X				
92563226	EB-3	9/28/2021	92563226015	WQ	EB (BRGWC-52I)	X	X	X	X	X	X	X	X				
92563761	PZ-51S	9/27/2021	92563761001	GW	-	X	X	X	X	X	X			X			
92563761	PZ-51I	9/27/2021	92563761002	GW	-	X	X	X	X	X	X			X			
92563761	PZ-61I	9/27/2021	92563761003	GW	-	X	X	X	X	X	X			X			
92563761	PZ-51D	9/28/2021	92563761004	GW	-	X	X	X	X	X	X			X			
92563761	PZ-57I	9/28/2021	92563761005	GW	-	X	X	X	X	X	X			X			
92563761	PZ-58I	9/28/2021	92563761006	GW	-	X	X	X	X	X	X			X			
92563761	PZ-44	9/28/2021	92563761007	GW	-	X	X	X	X	X	X			X			
92563761	PZ-50D	9/28/2021	92563761008	GW	-	X	X	X	X	X	X			X			
92563761	PZ-60I	9/28/2021	92563761009	GW	-	X	X	X	X	X	X			X			
92562860	BRGWA-5S	9/21/2021	92562860001	GW	-	X	X	X	X	X	X						
92562860	BRGWA-5I	9/21/2021	92562860002	GW	-	X	X	X	X	X	X						
92562860	BRGWA-2S	9/22/2021	92562860003	GW	-	X	X	X	X	X	X						
92562860	BRGWA-2I	9/22/2021	92562860004	GW	-	X	X	X	X	X	X						
92562860	BRGWA-6S	9/22/2021	92562860005	GW	-	X	X	X	X	X	X						
92562847	BRGWA-12S	9/21/2021	92562847001	GW	-											X	X
92562847	BRGWA-12I	9/21/2021	92562847002	GW	-											X	X
92562847	BRGWA-23S	9/22/2021	92562847003	GW	-											X	X
92563208	BRGWC-45	9/23/2021	92563208001	GW	-											X	X
92563208	BRGWC-47	9/23/2021	92563208002	GW	-											X	X
92563208	BRGWC-50	9/27/2021	92563208003	GW	-											X	X
92563208	DUP-2	9/27/2021	92563208004	GW	FD (BRGWC-50)											X	X
92563208	BRGWC-25I	9/28/2021	92563208005	GW	-											X	X
92563208	BRGWC-27I	9/28/2021	92563208006	GW	-											X	X
92563208	BRGWC-29I	9/28/2021	92563208007	GW	-											X	X
92563208	BRGWC-30I	9/28/2021	92563208008	GW	-											X	X
92563208	BRGWC-32S	9/28/2021	92563208009	GW	-											X	X
92563208	EB-2	9/28/2021	92563208010	WQ	EB (BRGWC-27I)											X	X
92563208	FB-2	9/28/2021	92563208011	WQ	FB (BRGWC-29I)											X	X
92563208	DUP-3	9/28/2021	92563208012	GW	FD (BRGWC-30I)											X	X
92563208	BRGWC-52I	9/28/2021	92563208013	GW	-											X	X
92563208	FB-3	9/28/2021	92563208014	WQ	FB (BRGWC-52I)											X	X
92563208	EB-3	9/28/2021	92563208015	WQ	EB (BRGWC-52I)											X	X
92563753	PZ-51S	9/27/2021	92563753001	GW	-											X	X
92563753	PZ-51I	9/27/2021	92563753002	GW	-											X	X
92563753	PZ-61I	9/27/2021	92563753003	GW	-											X	X
92563753	PZ-51D	9/28/2021	92563753004	GW	-											X	X
92563753	PZ-57I	9/28/2021	92563753005	GW	-											X	X
92563753	PZ-58I	9/28/2021	92563753006	GW	-											X	X
92563753	PZ-44	9/28/2021	92563753007	GW	-											X	X
92563753	PZ-50D	9/28/2021	92563753008	GW	-											X	X
92563753	PZ-60I	9/28/2021	92563753009	GW	-											X	X
92562849	BRGWA-5S	9/21/2021	92562849001	GW	-											X	X
92562849	BRGWA-5I	9/21/2021	92562849002	GW	-											X	X
92562849	BRGWA-2S	9/22/2021	92562849003	GW	-											X	X
92562849	BRGWA-2I	9/22/2021	92562849004	GW	-											X	X
92562849	BRGWA-6S	9/22/2021	92562849005	GW	-											X	X

Abbreviations:

- SDG- Sample Delivery Group
- QC - Quality Control
- GW - Groundwater
- WQ - Water Quality
- TDS - Total dissolved solids
- SW - Solid Waste
- EPA - Environmental Protection Agency
- FB - Field blank
- EB - Equipment Blank
- FD - Field duplicate
- SM - Standard Method

TABLE 2
Qualifier Summary Table
SCS Plant Branch

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL or MDC</i>	<i>Qualifier</i>	<i>Reason</i>
92562855	BRGWA-12S	Mercury	0.0002	-	U	Method blank detection
92562855	BRGWA-12I	Mercury	0.0002	-	U	Method blank detection
92562855	BRGWA-23S	Mercury	0.0002	-	U	Method blank detection
92563761	PZ-51I	Mercury	--	--	UJ	MS/MSD recovered below acceptance criteria and parent sample is ND
92563208	BRGWC-52I	Radium-228	-	2.75	U	Method, Equipment, and Field blank detection
92563208	BRGWC-52I	Total Radium	-	-	J+	Method, Equipment, and Field blank detection
92562860	BRGWA-5S	Mercury	0.0002	--	U	Method blank detection
92562860	BRGWA-5I	Mercury	0.0002	--	U	Method blank detection
92562860	BRGWA-2S	Mercury	0.0002	--	U	Method blank detection
92562860	BRGWA-2I	Mercury	0.0002	--	U	Method blank detection
92562860	BRGWA-6S	Mercury	0.0002	--	U	Method blank detection

Abbreviations:

SDG : Sample delivery group

RL : Reporting limit

MDC : Minimum detectable concentration

MS/MSD: Matrix spike/Matrix spike duplicate

Qualifiers:

U : Non-detect result

UJ : Non-detect estimated result

J+: Estimated value, bias high

**Quality Control Review of Analytical Data submitted by
Pace Analytical Services, LLC
Plant Branch CCR Ash Pond E
February 2022**

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC for groundwater samples collected at the Plant Branch CCR Ash Pond AP-E between February 1, 2022 and February 2, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and IV. Additional analysis included cations and anions (iron, manganese, potassium, magnesium), and alkalinity (total, carbonate and bicarbonate). Test methods included Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), and Alkalinity by Titration through Standard Method 2320B (SM2320B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Sensitivity: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: All holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of low precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory.

J The analyte was positively identified above the method detection limit; however, the concentration reported is an estimated.

U The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in SDGs 92585717, 92585727, 92585708, and 92585714 qualifications may not have been required or applied to all samples collected. No qualifications were required based on the data validation for Pond E.

Golder reviewed the data from samples collected at the Plant Branch CCR Ash Ponds between February 1, 2022 and February 2, 2022 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

Paar J.G. and Porterfield D.R., April 1997, US Department of Energy, *Evaluation of Radiochemical Data Usability*.

US EPA, November 2020, National Functional Guidelines for Inorganic Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation. OLEM 9240.0-51 [EPA 540-R-20-005]. Washington. DC, November 2020.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data By Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy*, Revision 2.0.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data By Cold Vapor Atomic Absorption*, Revision 2.0.

TABLE 1
Sample Summary Table - Pond E
SCS Plant Branch

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analysis							
						Field pH	Total Metals (EPA 6020B)	Metals (EPA 6010D)	Mercury (SW 7470A)	Anions (EPA 300.0)	TDS (SM2540C-2011)	Alkalinity (2320B)	Radium-226/228 (EPA 9315/9320)
92585717	BRGWA-2S	2/1/2022	92585717001	GW	-	X	X	X	X	X	X	X	-
92585717	BRGWA-2I	2/1/2022	92585717002	GW	-	X	X	X	X	X	X	X	-
92585717	BRGWA-5S	2/1/2022	92585717003	GW	-	X	X	X	X	X	X	X	-
92585717	BRGWA-5I	2/1/2022	92585717004	GW	-	X	X	X	X	X	X	X	-
92585717	BRGWA-6S	2/1/2022	92585717005	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-17S	2/1/2022	92585727001	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-33S	2/1/2022	92585727002	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-34S	2/1/2022	92585727003	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-35S	2/1/2022	92585727004	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-36S	2/1/2022	92585727005	GW	-	X	X	X	X	X	X	X	-
92585727	BRGWC-38S	2/1/2022	92585727006	GW	-	X	X	X	X	X	X	X	-
92585727	EB-1	2/1/2022	92585727007	WQ	EB (BRGWC-17S)	X	X	X	X	X	X	-	-
92585727	FB-1	2/1/2022	92585727008	WQ	FB (BRGWC-33S)	X	X	X	X	X	X	-	-
92585727	DUP-1	2/1/2022	92585727009	GW	FD (BRGWC-34S)	X	X	X	X	X	X	-	-
92585727	BRGWC-37S	2/2/2022	92585727010	GW	-	X	X	X	X	X	X	X	-
92585708	BRGWA-2S	2/1/2022	92585708001	GW	-	-	-	-	-	-	-	-	X
92585708	BRGWA-2I	2/1/2022	92585708002	GW	-	-	-	-	-	-	-	-	X
92585708	BRGWA-5S	2/1/2022	92585708003	GW	-	-	-	-	-	-	-	-	X
92585708	BRGWA-5I	2/1/2022	92585708004	GW	-	-	-	-	-	-	-	-	X
92585708	BRGWA-6S	2/1/2022	92585708005	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-17S	2/1/2022	92585714001	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-33S	2/1/2022	92585714002	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-34S	2/1/2022	92585714003	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-35S	2/1/2022	92585714004	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-36S	2/1/2022	92585714005	GW	-	-	-	-	-	-	-	-	X
92585714	BRGWC-38S	2/1/2022	92585714006	GW	-	-	-	-	-	-	-	-	X
92585714	EB-1	2/1/2022	92585714007	GW	EB (BRGWC-17S)	-	-	-	-	-	-	-	X
92585714	FB-1	2/1/2022	92585714008	GW	FB (BRGWC-33S)	-	-	-	-	-	-	-	X
92585714	DUP-1	2/1/2022	92585714009	GW	FD (BRGWC-34S)	-	-	-	-	-	-	-	X
92585714	BRGWC-37S	2/1/2022	92585714010	GW	-	-	-	-	-	-	-	-	X

Abbreviations:
 SDG - Sample Delivery Group
 QC - Quality Control
 TDS - Total Dissolved Solids
 EPA - Environmental Protection Agency
 SW - Solid Waste
 SM - Standard Method
 GW - Groundwater
 WQ - Water Quality
 FB - Field blank
 EB - Equipment blank
 FD - Field duplicate

TABLE 2
Qualifier Summary Table - Pond E
Plant Branch

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL or MDC</i>	<i>Qualifier</i>	<i>Reason</i>
						No qualifications required.

Abbreviations:

SDG : Sample delivery group

MDC : Minimum detectable concentration

RL : Reporting limit

**Quality Control Review of Analytical Data submitted by
Pace Analytical Services, LLC
Plant Branch CCR Ash Pond BCD
February 2022**

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC for groundwater samples collected at the Plant Branch CCR Ash Pond AP-BCD between February 1, 2022 and February 4, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and IV. Additional analysis included cations and anions (iron, manganese, potassium, magnesium), alkalinity (total, carbonate and bicarbonate), nitrate-nitrite, sulfide, ferrous and ferric iron and Dissolved Organic Carbon (DOC). Test methods included Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), Alkalinity by Titration through Standard Method 2320B (SM2320B), Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry (EPA 353.2), Sulfide (Standard Methods 4500), Ferrous and Ferric iron (Standard Methods 3500) and DOC (Standard Methods 5310B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision:	Laboratory goals for precision were met.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met.
Sensitivity:	Project goals for detection limits were met. Certain samples were diluted due to the concentration of the target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data

usability of diluted results was evaluated by the data user in the context of site-wide characterization. Detections were found in certain blank results, as described in the qualification sections below.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: All holding time requirements were met in accordance with specific analytical methods except for ferrous and ferric iron results in SDGs 92585977 and 92585979 as described in the qualifications sections below.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of low precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory.

J The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.

U The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in SDGs 92585708, 92585712, 92585717, 92585723, 92585970, 92585972, 92585977, and 92585979 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain ferrous and ferric iron results in SDGs 92585977 and 92585979 were qualified as estimated values (J) due to holding time requirement exceedances specific to the analytical method.

Golder reviewed the data from samples collected at the Plant Branch CCR Ash Pond BCD between February 1, 2022 and February 4, 2022 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

Paar J.G. and Porterfield D.R., April 1997, US Department of Energy, Evaluation of Radiochemical Data Usability.

US EPA, November 2020, National Functional Guidelines for Inorganic Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation. OLEM 9240.0-51 [EPA 540-R-20-005]. Washington. DC, November 2020.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data By Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data By Cold Vapor Atomic Absorption, Revision 2.0.

TABLE 1

Sample Summary Table - Pond BCD
SCS Plant Branch

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analysis											
						Field pH	Total Metals (EPA 6020B)	Metals (EPA 6010D)	Mercury (SW7470A)	Anions (EPA 300.0)	TDS (SM2540C-2011)	Alkalinity (SM 2320B)	Nitrate-Nitrite (EPA 353.2)	Sulfide (SM 4500)	Ferrous and Ferric iron (SM 3500)	DOC (SM 5310B)	Radium-226/228 (EPA 9315/9320)
92585717	BRGWA-2S	2/1/2022	92585717001	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585717	BRGWA-2I	2/1/2022	92585717002	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585717	BRGWA-5S	2/1/2022	92585717003	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585717	BRGWA-5I	2/1/2022	92585717004	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585717	BRGWA-6S	2/1/2022	92585717005	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585723	BRGWA-12S	2/1/2022	92585723001	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585723	BRGWA-12I	2/1/2022	92585723002	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585723	BRGWA-23S	2/1/2022	92585723003	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-25I	2/2/2022	92585977001	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-30I	2/2/2022	92585977002	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-32S	2/2/2022	92585977003	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-45	2/2/2022	92585977004	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-47	2/2/2022	92585977005	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-52I	2/2/2022	92585977006	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	DUP-2	2/2/2022	92585977007	GW	FD (BRGWC-30I)	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-50	2/3/2022	92585977008	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-27I	2/4/2022	92585977009	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	BRGWC-29I	2/3/2022	92585977010	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585977	DUP-3	2/3/2022	92585977011	GW	FD (BRGWC-29I)	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-51S	2/2/2022	92585979001	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-44	2/2/2022	92585979002	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-51I	2/2/2022	92585979003	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-61I	2/2/2022	92585979004	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	FB-2	2/2/2022	92585979005	WQ	FB (PZ-51S)	X	X	X	X	X	X	X	-	-	-	-	-
92585979	EB-2	2/2/2022	92585979006	WQ	EB (PZ-61I)	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-58I	2/3/2022	92585979007	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-59I	2/3/2022	92585979008	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-60I	2/3/2022	92585979009	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-50D	2/3/2022	92585979010	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-51D	2/3/2022	92585979011	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-57I	2/4/2022	92585979012	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-63I	2/4/2022	92585979013	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	PZ-62I	2/4/2022	92585979014	GW	-	X	X	X	X	X	X	X	-	-	-	-	-
92585979	FB-3	2/3/2022	92585979015	WQ	FB (PZ-50D)	X	X	X	X	X	X	X	-	-	-	-	-
92585708	BRGWA-2S	2/1/2022	92585708001	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585708	BRGWA-2I	2/1/2022	92585708002	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585708	BRGWA-5S	2/1/2022	92585708003	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585708	BRGWA-5I	2/1/2022	92585708004	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585708	BRGWA-6S	2/1/2022	92585708005	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585712	BRGWA-12S	2/1/2022	92585712001	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585712	BRGWA-12I	2/1/2022	92585712002	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585712	BRGWA-23S	2/1/2022	92585712003	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-25I	2/2/2022	92585970001	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-30I	2/2/2022	92585970002	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-32S	2/2/2022	92585970003	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-45	2/2/2022	92585970004	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-47	2/2/2022	92585970005	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-52I	2/2/2022	92585970006	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	DUP-2	2/2/2022	92585970007	GW	FD (BRGWC-30I)	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-50	2/3/2022	92585970008	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-27I	2/4/2022	92585970009	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	BRGWC-29I	2/3/2022	92585970010	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585970	DUP-3	2/3/2022	92585970011	GW	FD (BRGWC-29I)	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-51S	2/2/2022	92585972001	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-44	2/2/2022	92585972002	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-51I	2/2/2022	92585972003	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-61I	2/2/2022	92585972004	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	FB-2	2/2/2022	92585972005	WQ	FB (PZ-51S)	-	-	-	-	-	-	-	-	-	-	-	X
92585972	EB-2	2/2/2022	92585972006	WQ	EB (PZ-61I)	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-58I	2/3/2022	92585972007	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-59I	2/3/2022	92585972008	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-60I	2/3/2022	92585972009	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-50D	2/3/2022	92585972010	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-51D	2/3/2022	92585972011	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-57I	2/4/2022	92585972012	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-63I	2/4/2022	92585972013	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	PZ-62I	2/4/2022	92585972014	GW	-	-	-	-	-	-	-	-	-	-	-	-	X
92585972	FB-3	2/3/2022	92585972015	WQ	FB (PZ-50D)	-	-	-	-	-	-	-	-	-	-	-	X

Abbreviations:

SDG - Sample Delivery Group
 QC - Quality Control
 GW - Groundwater
 WQ - Water Quality
 SW - Solid Waste
 SM - Standard Method
 EPA - Environmental Protection Agency
 TDS - Total Dissolved Solids
 FB - Field blank
 EB - Equipment Blank
 FD - Field duplicate
 DOC - Dissolved Organic Carbon

TABLE 2
Qualifier Summary Table
Plant Branch AP-BCD

SDG	Sample Name	Constituent	New Result	New RL or MDC	Qualifier	Reason
92585977	BRGWC-50	Iron (Ferrous)	-	-	J	Analysis run out of holding time
92585977	BRGWC-50	Iron (Ferric)	-	-	J	Analysis run out of holding time
92585979	PZ-58I	Iron (Ferrous)	-	-	J	Analysis run out of holding time
92585979	PZ-59I	Iron (Ferrous)	-	-	J	Analysis run out of holding time
92585979	PZ-60I	Iron (Ferrous)	-	-	J	Analysis run out of holding time
92585979	PZ-58I	Iron (Ferric)	-	-	J	Analysis run out of holding time
92585979	PZ-59I	Iron (Ferric)	-	-	J	Analysis run out of holding time
92585979	PZ-60I	Iron (Ferric)	-	-	J	Analysis run out of holding time

Abbreviations:

SDG : Sample delivery group

RL : Reporting limit

MDC : Minimum Detectable Concentration

Qualifiers:

J: Estimated value

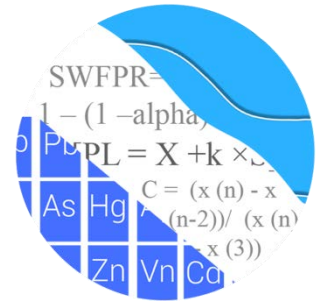
APPENDIX B

Statistical Analyses – September 2021 and February 2022

GROUNDWATER STATS CONSULTING

February 28, 2022

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374



Re: Plant Branch Pond E – September 2021 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2021 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV well/constituent pairs with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of

data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified

either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they were plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a handful of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, they did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – September 2021

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2021 (Figure D). Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2021 sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance

is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Chloride: BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-38S
- pH (lower limit): BRGWC-33S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWC-17S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. While several statistically significant decreasing trends were noted for upgradient and downgradient wells, statistically significant increasing trends were identified for boron in well BRGWC-35S, calcium in upgradient well BRGWA-6S, and chloride in well BRGWC-36S. A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – September 2021

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from

upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2021 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 Georgia EPD Rule 391-3-4-.10(6)(a). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2021 sample event according to the state rules (Figure G).

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). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). 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 State and Federal well/constituent pairs:

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

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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 trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. While no statistically significant increasing trends were identified, statistically significant decreasing trends were noted for the following well/constituent pairs:

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

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina L. Rayner
Groundwater Statistician



Andrew T. Collins
Project Manager

100% Non-Detects

Analysis Run 11/28/2021 8:07 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S

Arsenic (mg/L)
BRGWC-34S

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S

Chromium (mg/L)
BRGWC-34S

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S

Lithium (mg/L)
BRGWC-37S

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S

Interwell Prediction Limit - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 7:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Boron (mg/L)	BRGWC-33S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	9/22/2021	2.2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	9/23/2021	2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	9/23/2021	1.4	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/22/2021	36.4	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/22/2021	28.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/22/2021	76.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/23/2021	70.5	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/22/2021	53.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/23/2021	36.8	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	9/22/2021	5.6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	9/23/2021	6.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	9/22/2021	7.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	9/23/2021	6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	9/23/2021	0.85	Yes	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.076	5.912	9/22/2021	4.81	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.076	5.912	9/22/2021	5.53	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.076	5.912	9/23/2021	5.85	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.076	5.912	9/23/2021	4.05	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	9/22/2021	123	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	9/22/2021	94.6	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	9/22/2021	232	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	9/23/2021	258	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	9/22/2021	234	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	9/23/2021	318	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	9/22/2021	323	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	9/22/2021	406	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	9/23/2021	511	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	9/22/2021	457	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	9/23/2021	528	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 7:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.04	n/a	9/22/2021	0.02J	No	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	9/22/2021	2.2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	9/23/2021	2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-37S	0.04	n/a	9/23/2021	0.04ND	No	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	9/23/2021	1.4	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/22/2021	36.4	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/22/2021	28.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/22/2021	76.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/23/2021	70.5	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/22/2021	53.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-37S	24	n/a	9/23/2021	3.7	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/23/2021	36.8	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	9/22/2021	4.6	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	9/22/2021	2.7	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	9/22/2021	5.6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	9/23/2021	6.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	9/22/2021	7.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-37S	4.8	n/a	9/23/2021	1.9	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	9/23/2021	6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.19	n/a	9/22/2021	0.1	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.19	n/a	9/22/2021	0.068J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.19	n/a	9/22/2021	0.1	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.19	n/a	9/23/2021	0.073J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.19	n/a	9/22/2021	0.054J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.19	n/a	9/23/2021	0.1ND	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	9/23/2021	0.85	Yes	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-17S	7.076	5.912	9/22/2021	6.22	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.076	5.912	9/22/2021	4.81	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-34S	7.076	5.912	9/22/2021	5.93	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.076	5.912	9/23/2021	6.08	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.076	5.912	9/22/2021	5.53	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.076	5.912	9/23/2021	5.85	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.076	5.912	9/23/2021	4.05	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	9/22/2021	123	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	9/22/2021	94.6	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	9/22/2021	232	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	9/23/2021	258	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	9/22/2021	234	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	9/23/2021	0.5ND	No	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	9/23/2021	318	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	9/22/2021	323	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	299	n/a	9/22/2021	190	No	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	9/22/2021	406	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	9/23/2021	511	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	9/22/2021	457	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-37S	299	n/a	9/23/2021	49	No	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	9/23/2021	528	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	BRGWC-35S	0.1871	71	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.177	51	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.934	-59	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.931	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2607	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.111	64	48	Yes	14	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1251	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1644	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-21.01	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.99	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-33.47	-66	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-57.34	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.06	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-52.14	-77	-48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.002384	20	48	No	14	21.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	6	48	No	14	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	1	48	No	14	57.14	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	14	48	No	14	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-1	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	1	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1871	71	48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.03939	46	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.08072	-44	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.8266	46	48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0	1	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	-0.07521	-6	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4646	-20	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.177	51	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.591	42	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-33S	-2.641	-41	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.934	-59	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	2.011	36	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-0.2098	-10	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.931	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.06183	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	-0.02852	-22	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2053	-44	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06983	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	0	-12	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2607	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.04963	16	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.111	64	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-38S	0.1287	11	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-19	-58	No	16	43.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0	35	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0	44	58	No	16	68.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	-0.007283	-34	-58	No	16	31.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003585	41	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0.01742	21	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1251	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.02883	-43	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.02729	-28	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.0589	-55	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-6	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.009037	-29	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	-0.004873	-4	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	0.02208	10	43	No	13	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1644	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2487	-28	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	3	48	No	14	35.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.3219	-27	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.08437	-40	-48	No	14	35.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01226	-14	-48	No	14	21.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	2.57	24	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-21.01	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.99	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-35S	-2.219	-16	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-12.6	-42	-48	No	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate (mg/L)	BRGWC-38S	-33.47	-66	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-4.927	-15	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	0.8314	7	48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-7.713	-21	-48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.968	-46	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.774	-10	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	-1.586	-6	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-57.34	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	-0.7228	-1	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.06	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-52.14	-77	-48	Yes	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/27/2021, 3:56 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	75	n/a	n/a	90.67	n/a	n/a	0.02134	NP Inter(NDs)
Arsenic (mg/L)	0.005	75	n/a	n/a	77.33	n/a	n/a	0.02134	NP Inter(NDs)
Barium (mg/L)	0.063	75	n/a	n/a	0	n/a	n/a	0.02134	NP Inter(normality)
Beryllium (mg/L)	0.0005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Cadmium (mg/L)	0.0005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Chromium (mg/L)	0.016	75	n/a	n/a	16	n/a	n/a	0.02134	NP Inter(normality)
Cobalt (mg/L)	0.005	73	n/a	n/a	46.58	n/a	n/a	0.02365	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.397	75	0.6541	0.3768	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	80	n/a	n/a	51.25	n/a	n/a	0.01652	NP Inter(normality)
Lead (mg/L)	0.0013	75	n/a	n/a	77.33	n/a	n/a	0.02134	NP Inter(NDs)
Lithium (mg/L)	0.089	75	n/a	n/a	42.67	n/a	n/a	0.02134	NP Inter(normality)
Mercury (mg/L)	0.00021	65	n/a	n/a	84.62	n/a	n/a	0.03565	NP Inter(NDs)
Molybdenum (mg/L)	0.01	75	n/a	n/a	69.33	n/a	n/a	0.02134	NP Inter(normality)
Selenium (mg/L)	0.005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Thallium (mg/L)	0.001	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)

PLANT BRANCH POND E GWPS			
Constituent Name	MCL	Background Limit	GWPS
Antimony, Total (mg/L)	0.006	0.003	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.063	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.016	0.1
Cobalt, Total (mg/L)	n/a	0.005	0.005
Combined Radium, Total (pCi/L)	5	1.4	5
Fluoride, Total (mg/L)	4	0.19	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.089	0.089
Mercury, Total (mg/L)	0.002	0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	0.009533	0.00803	0.004	Yes	16	0.008781	0.001155	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05247	0.03819	0.005	Yes	16	0.04533	0.01097	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-38S	0.261	0.2111	0.005	Yes	15	0.2361	0.03678	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	15	0.00286	0.0005422	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0006	0.006	No	15	0.002403	0.001059	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	15	0.002667	0.0008805	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	15	0.002707	0.000775	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.00073	0.01	No	15	0.004014	0.001802	73.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	BRGWC-33S	0.005	0.0006	0.01	No	16	0.004447	0.00151	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	15	0.004096	0.001872	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	15	0.004143	0.001777	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.00078	0.01	No	15	0.004107	0.001851	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003552	0.001712	0.01	No	15	0.002632	0.001358	6.667	None	No	0.01	Param.
Barium (mg/L)	BRGWC-17S	0.04272	0.03851	2	No	15	0.04061	0.003109	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.02247	0.02007	2	No	16	0.02127	0.00184	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-34S	0.03481	0.02498	2	No	15	0.02989	0.007253	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0701	0.036	2	No	15	0.04955	0.01952	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04452	0.03212	2	No	15	0.03894	0.01063	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02514	0.02294	2	No	15	0.02404	0.00162	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0338	0.015	2	No	15	0.02211	0.01015	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.0021	0.0014	0.004	No	16	0.001975	0.000856	6.25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-34S	0.0002	0.0001	0.004	No	15	0.0007847	0.001712	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00016	0.0001	0.004	No	15	0.000778	0.001714	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.005	0.000081	0.004	No	16	0.00132	0.002194	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-38S	0.009533	0.00803	0.004	Yes	16	0.008781	0.001155	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004567	0.0003146	0.005	No	16	0.0003856	0.0001092	6.25	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004931	0.0002202	0.005	No	15	0.0003707	0.0002201	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0005	0.0001	0.005	No	16	0.0004488	0.0001401	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0006164	0.0004902	0.005	No	15	0.0005533	0.00009309	6.667	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-17S	0.01271	0.009722	0.1	No	15	0.01129	0.002403	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.005	0.00049	0.1	No	16	0.004718	0.001127	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006645	0.004195	0.1	No	15	0.00542	0.001808	6.667	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00845	0.00723	0.1	No	15	0.00784	0.0009006	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.005	0.0013	0.1	No	15	0.002207	0.001461	20	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004183	0.003449	0.1	No	15	0.00372	0.0007885	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05247	0.03819	0.005	Yes	16	0.04533	0.01097	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-34S	0.004668	0.003235	0.005	No	15	0.004	0.001182	6.667	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.005	0.0008	0.005	No	15	0.003667	0.001999	66.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-38S	0.261	0.2111	0.005	Yes	15	0.2361	0.03678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.8147	0.3418	5	No	15	0.5783	0.3489	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.228	0.6374	5	No	15	0.9329	0.4361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.099	0.7584	5	No	15	0.9289	0.2516	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.028	0.4491	5	No	15	0.7385	0.4271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.211	0.636	5	No	15	0.9233	0.4239	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.7803	0.3765	5	No	15	0.5784	0.2979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.056	1.939	5	No	15	2.498	0.8238	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.16	0.085	4	No	16	0.1111	0.0461	6.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-33S	0.2372	0.1092	4	No	17	0.1818	0.114	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.15	0.07581	4	No	16	0.1241	0.08598	6.25	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.129	0.06211	4	No	16	0.1058	0.07576	12.5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.15	0.051	4	No	16	0.1159	0.1129	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-37S	0.1	0.05	4	No	16	0.07813	0.02796	43.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9503	0.724	4	No	16	0.8481	0.204	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.001	0.0001	0.0013	No	15	0.0008769	0.0003249	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.001	0.000063	0.0013	No	16	0.0003298	0.0004019	25	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.001	0.0003	0.0013	No	15	0.0008327	0.0003493	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.001	0.00012	0.0013	No	15	0.000768	0.0003988	73.33	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-36S	0.001	0.000047	0.0013	No	15	0.0009365	0.0002461	93.33	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	BRGWC-37S	0.001	0.0001	0.0013	No	15	0.00088	0.0003167	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00034	0.0013	No	15	0.0004333	0.0001676	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-17S	0.03	0.00097	0.089	No	15	0.01839	0.01472	60	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-33S	0.0103	0.009187	0.089	No	16	0.009744	0.0008563	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.03	0.00089	0.089	No	15	0.02029	0.01421	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-35S	0.0022	0.002	0.089	No	15	0.00214	0.00008281	0	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.0026	0.0022	0.089	No	15	0.0043	0.007111	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02256	0.02032	0.089	No	15	0.02144	0.001659	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-17S	0.0002	0.000084	0.002	No	13	0.0001726	0.00005268	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	14	0.0001736	0.00005486	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00007	0.002	No	13	0.0001677	0.00005615	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00011	0.002	No	13	0.0001777	0.00004419	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.0001	0.002	No	13	0.0001769	0.00004553	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00011	0.002	No	13	0.0001777	0.00004549	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001773	0.0001034	0.002	No	13	0.0001404	0.00004968	7.692	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.00269	0.001711	0.05	No	15	0.003087	0.001371	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.005	0.0028	0.05	No	16	0.003919	0.001242	50	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.005369	0.003098	0.05	No	15	0.004313	0.001805	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.04205	0.03334	0.05	No	15	0.03769	0.006428	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00022	0.00018	0.002	No	16	0.0002456	0.0002023	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.00019	0.002	No	15	0.0003953	0.0003188	20	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:18 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006894	-108	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02062	-71	-53	Yes	15	0	n/a	n/a	0.01	NP

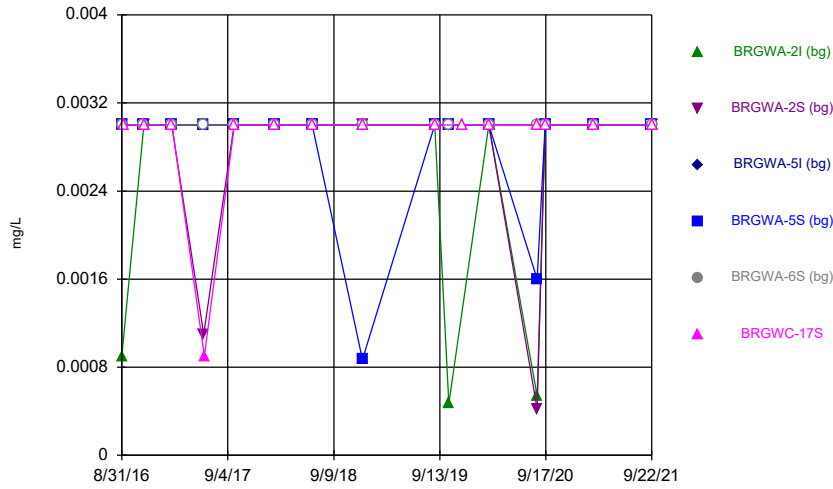
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:18 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	11	53	No	15	80	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0004551	-45	-53	No	15	13.33	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.000186	-42	-43	No	13	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	16	53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	-9	-53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006894	-108	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02062	-71	-53	Yes	15	0	n/a	n/a	0.01	NP

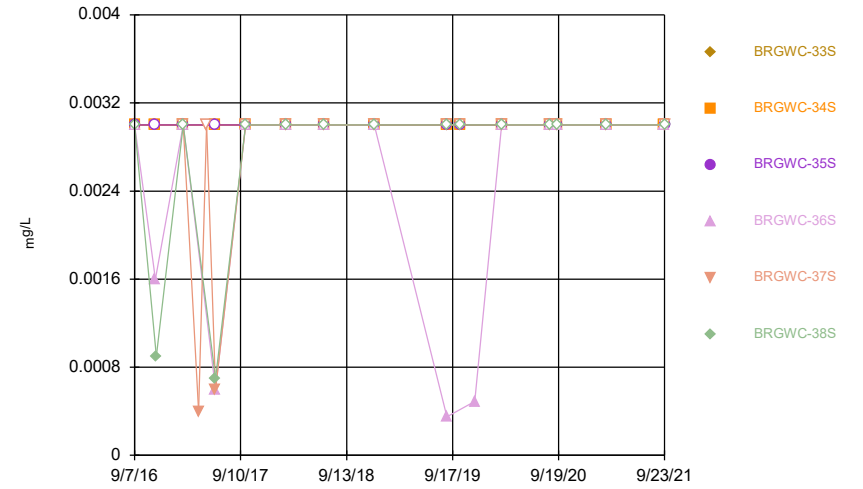
FIGURE A.

Time Series



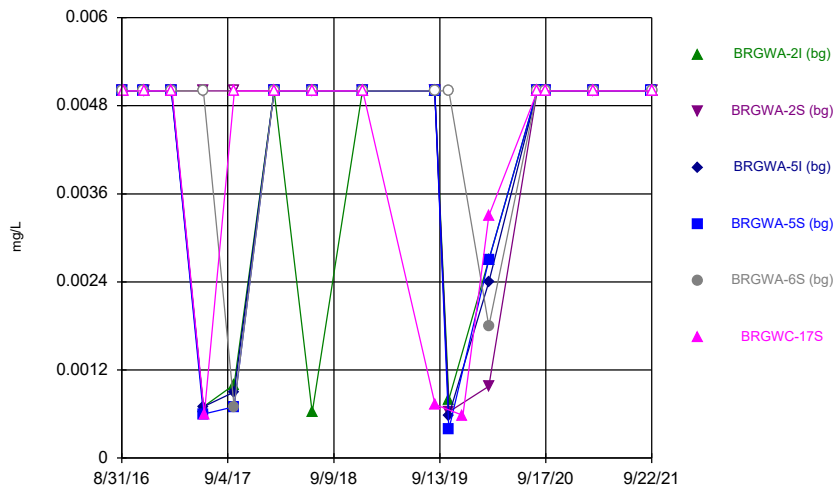
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



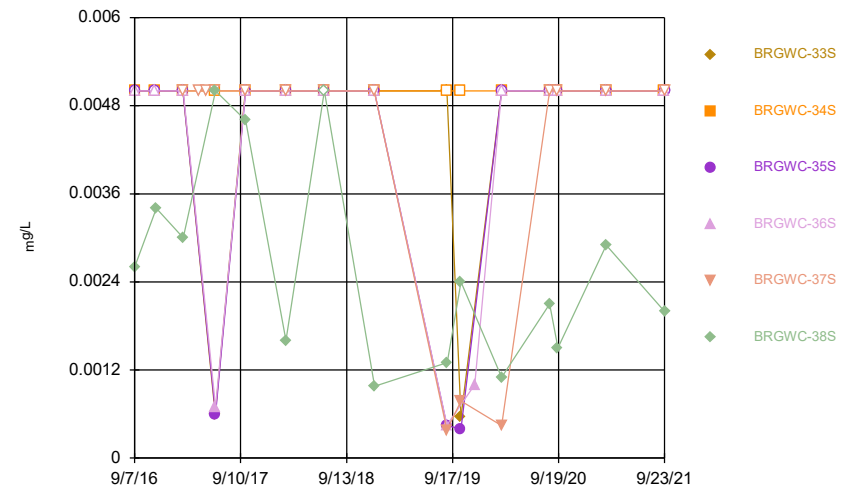
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



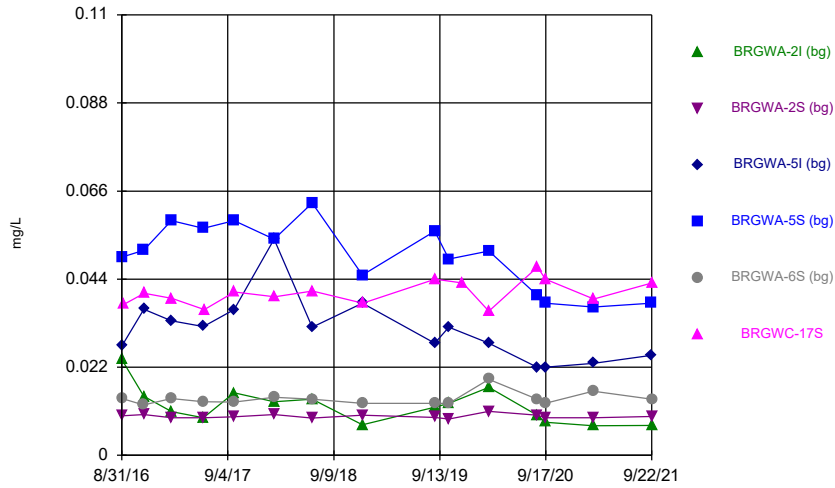
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



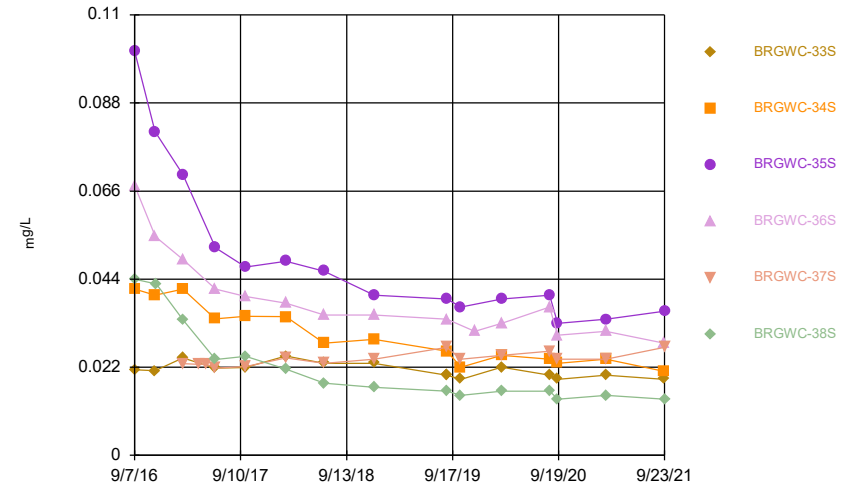
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



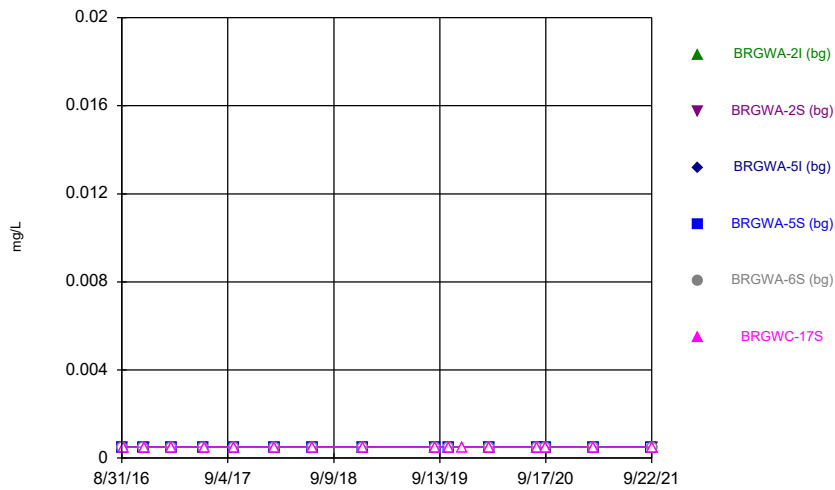
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



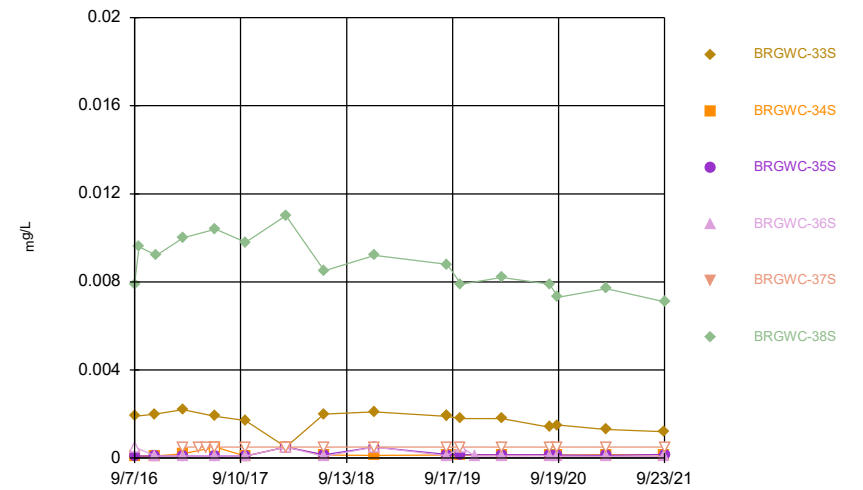
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



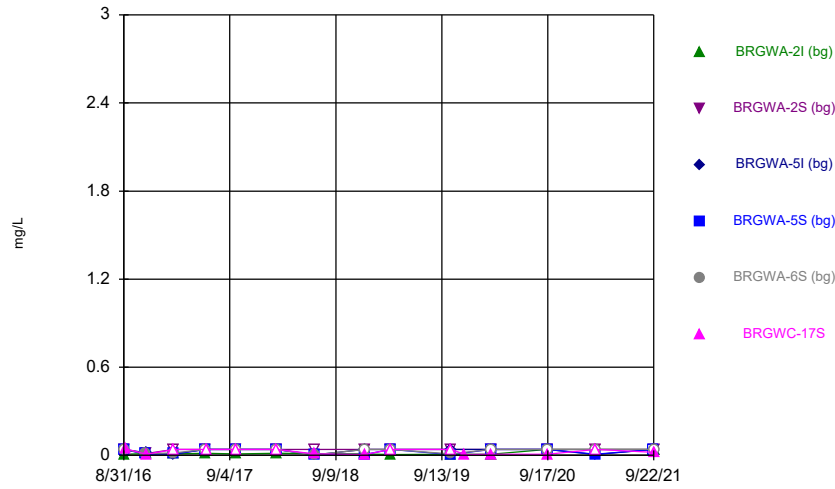
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Time Series



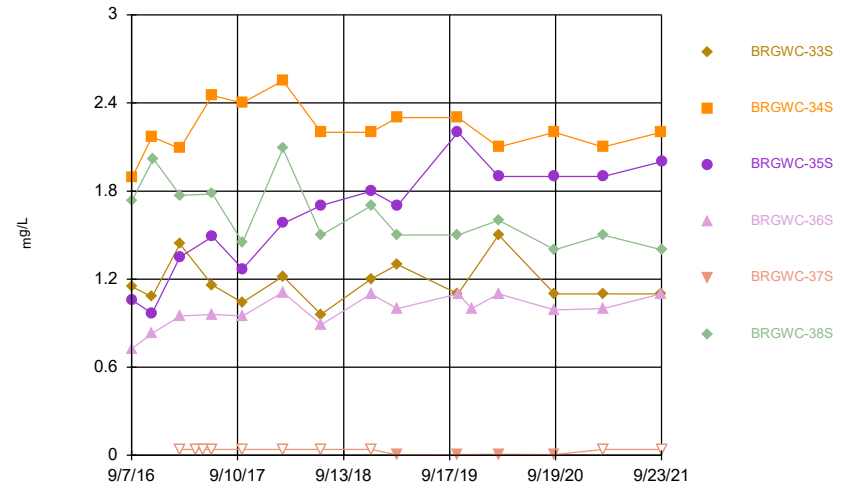
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



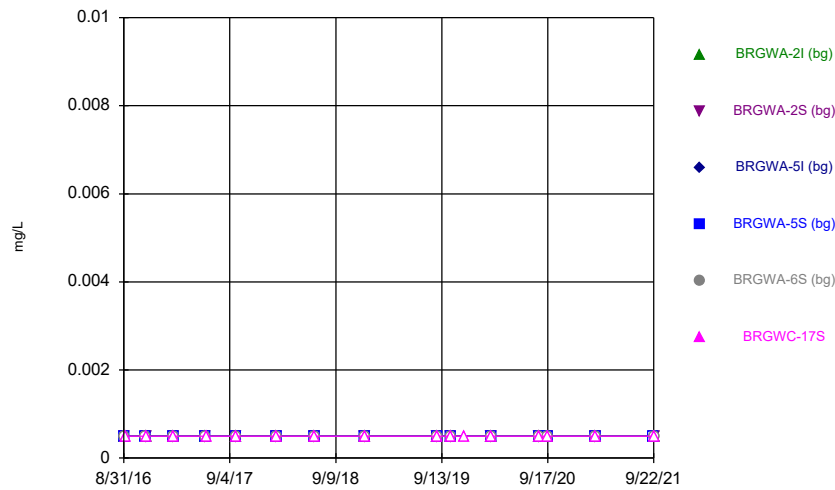
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



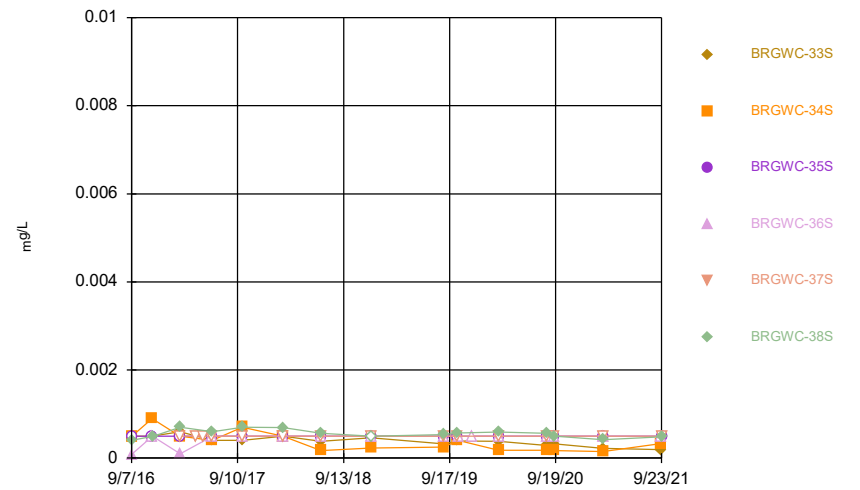
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



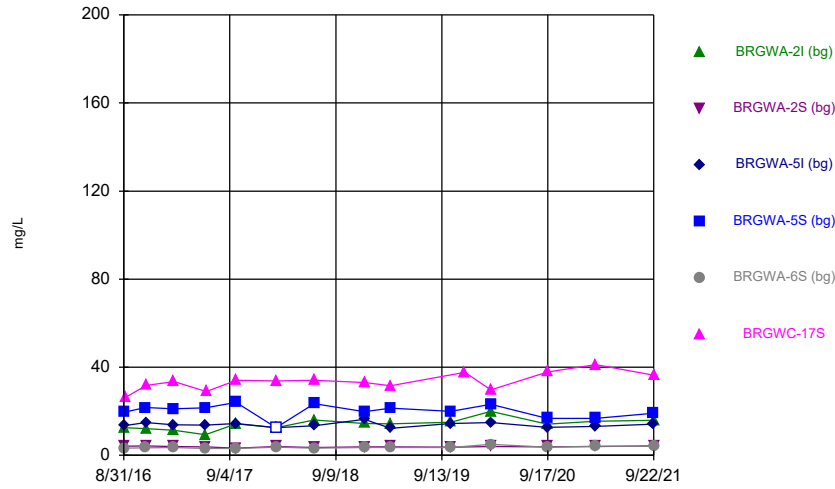
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



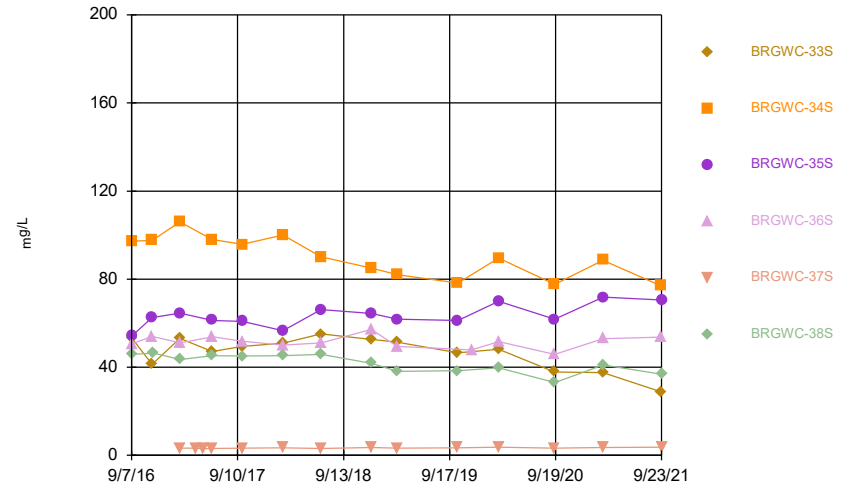
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



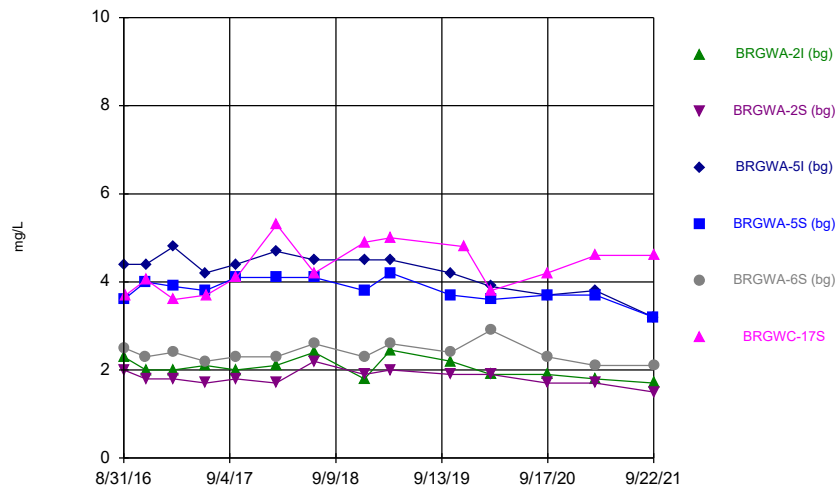
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



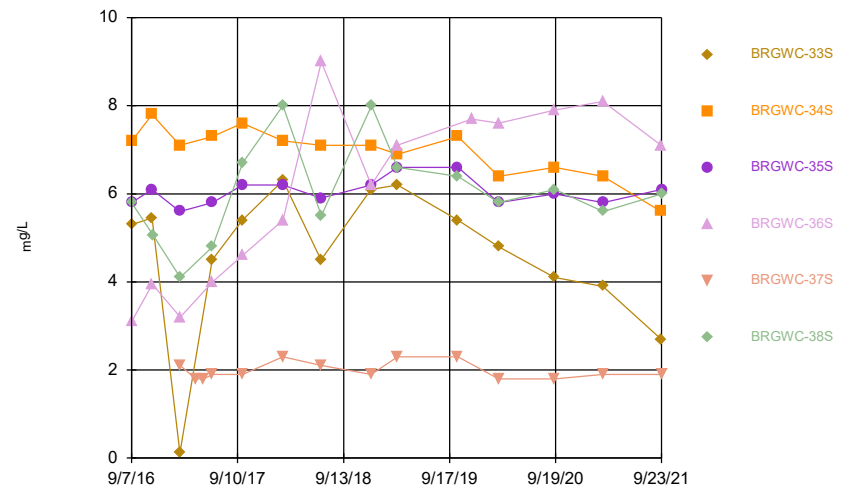
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



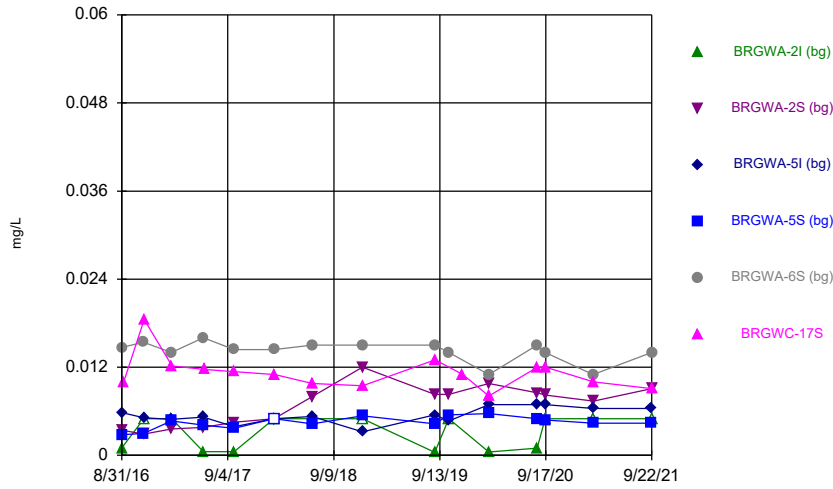
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



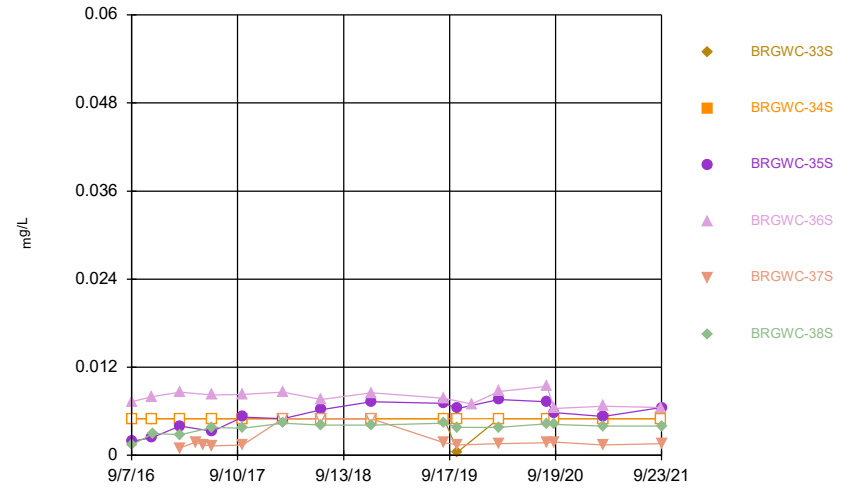
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



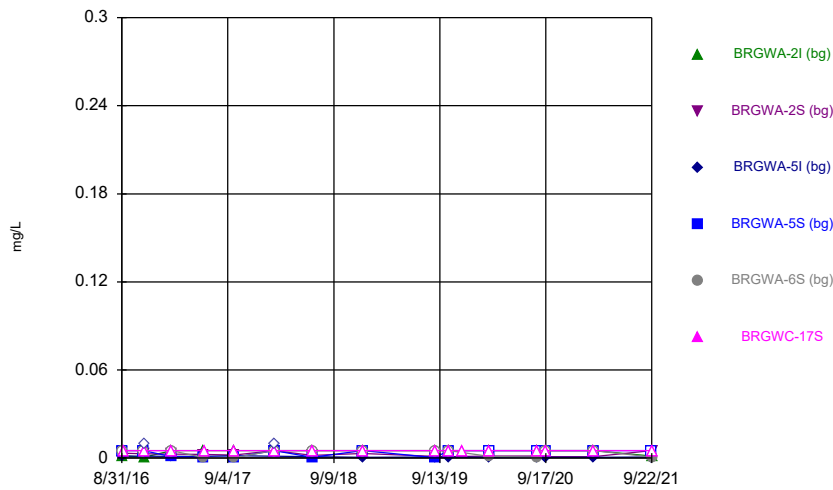
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



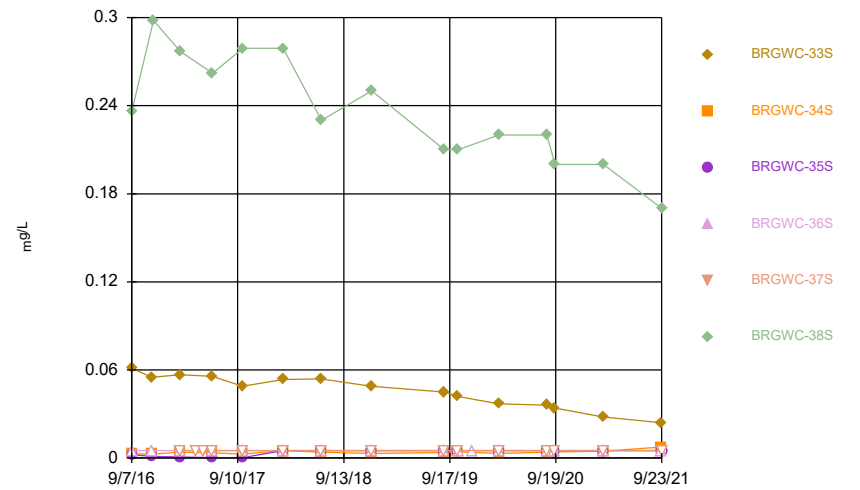
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Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



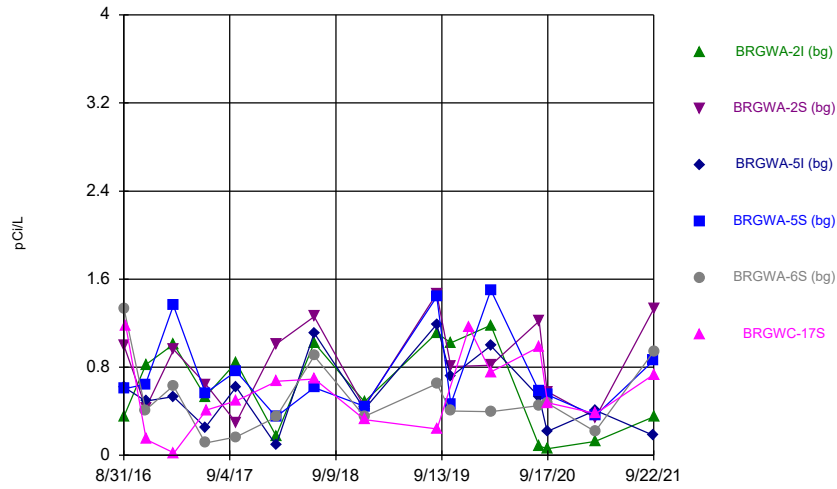
Constituent: Cobalt Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



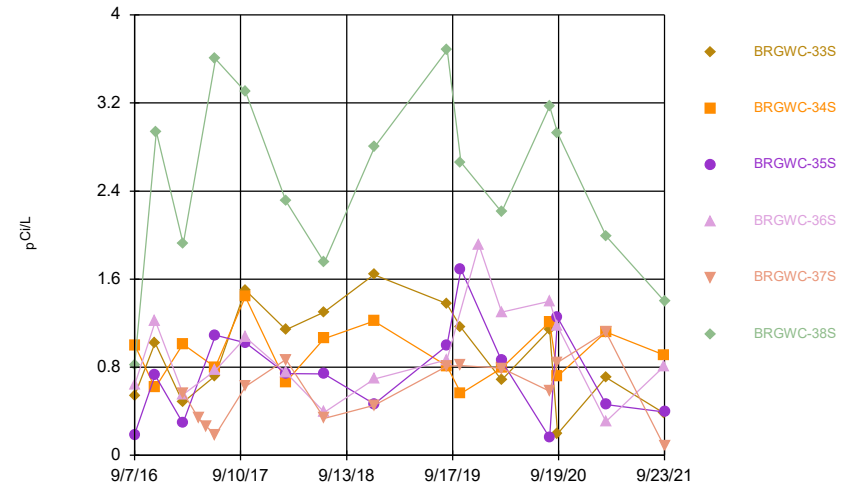
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Time Series



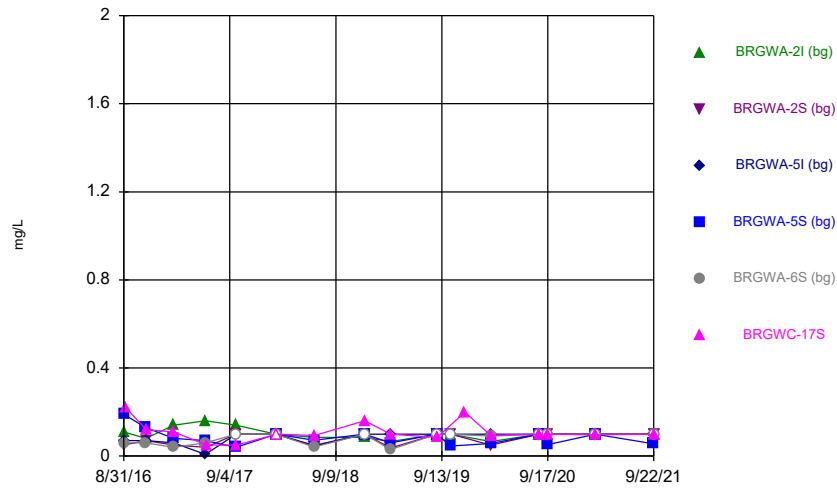
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



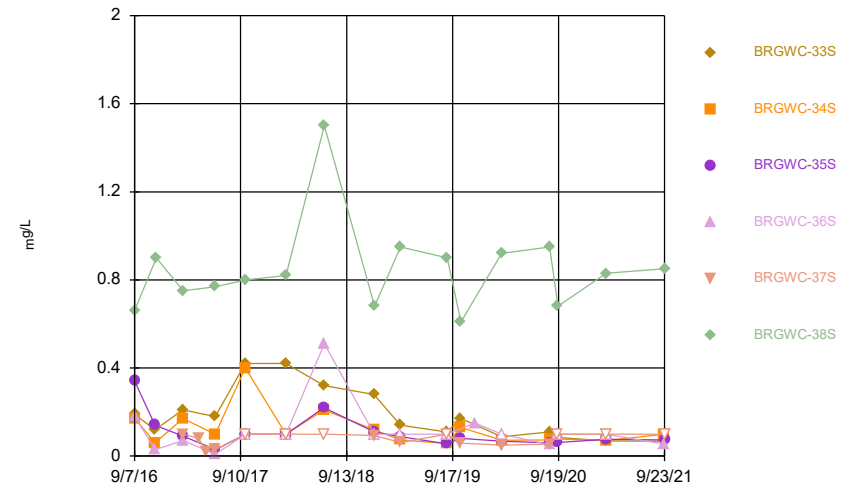
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



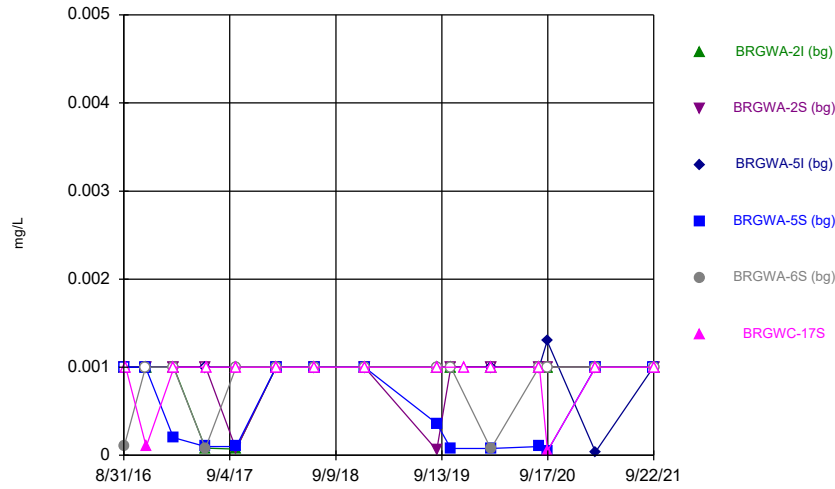
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



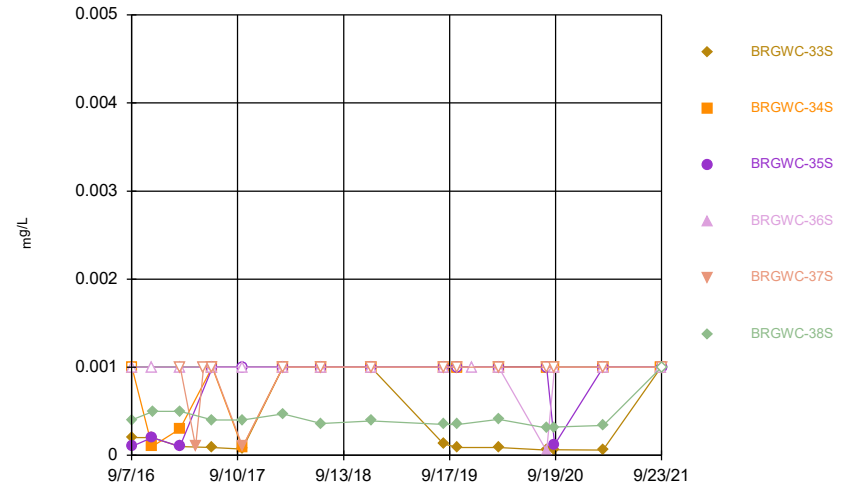
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



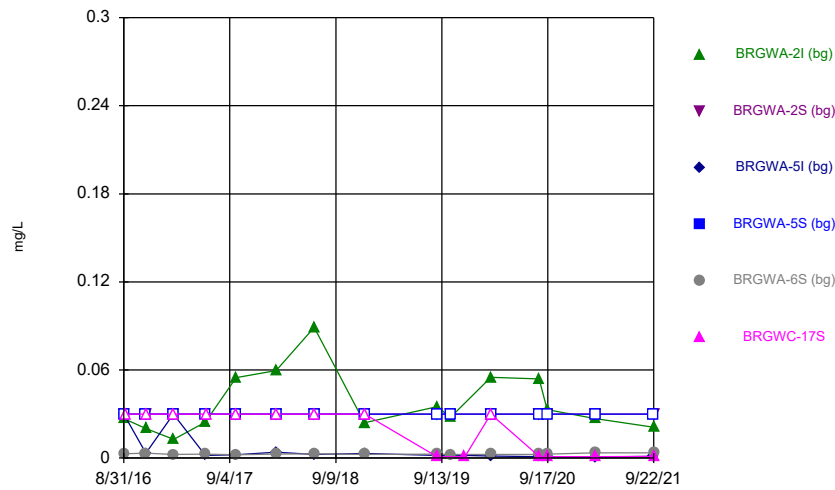
Constituent: Lead Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



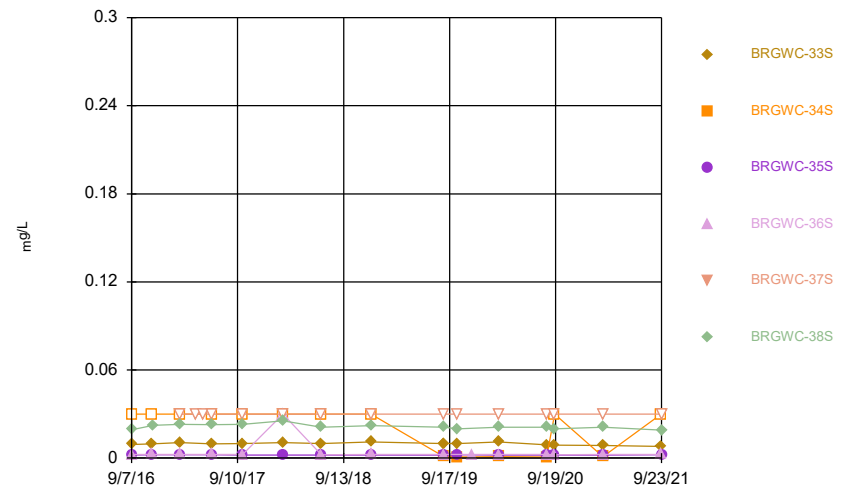
Constituent: Lead Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



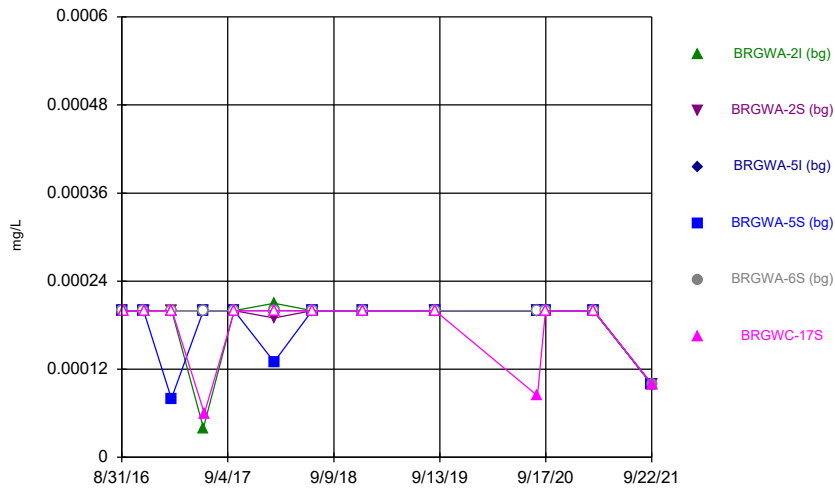
Constituent: Lithium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



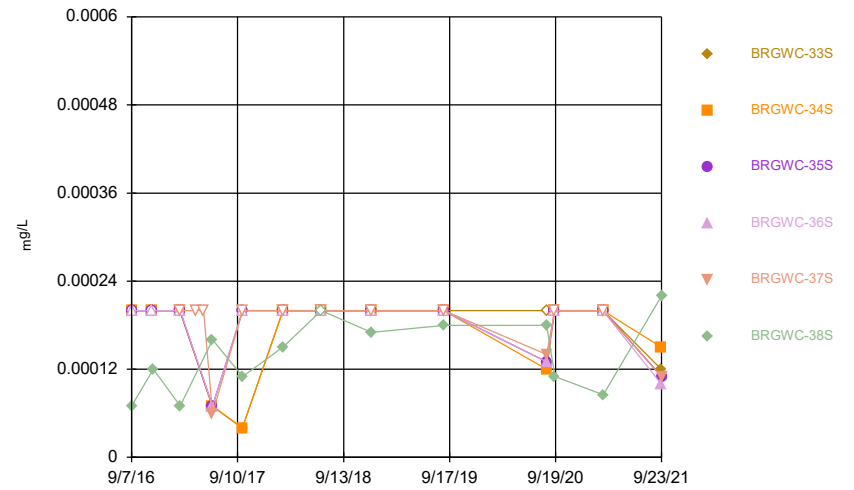
Constituent: Lithium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



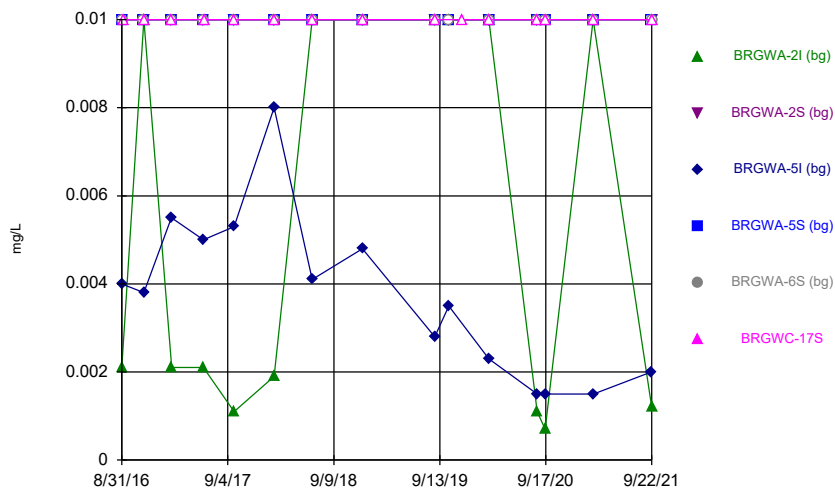
Constituent: Mercury Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



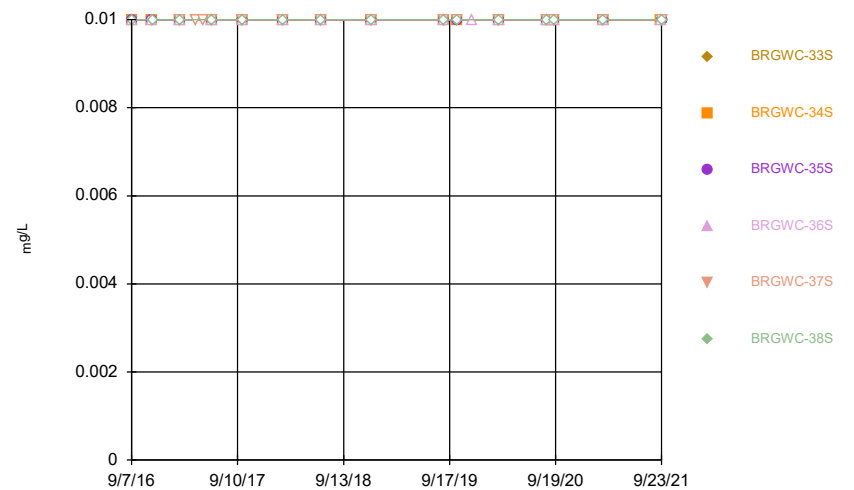
Constituent: Mercury Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



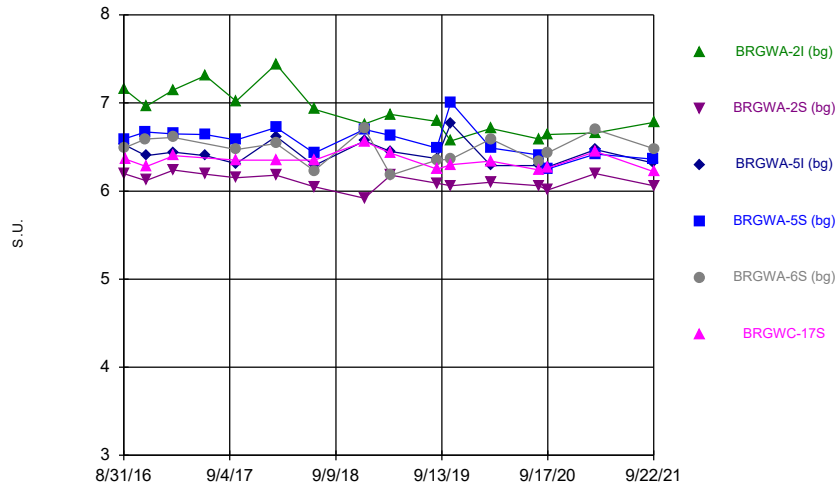
Constituent: Molybdenum Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



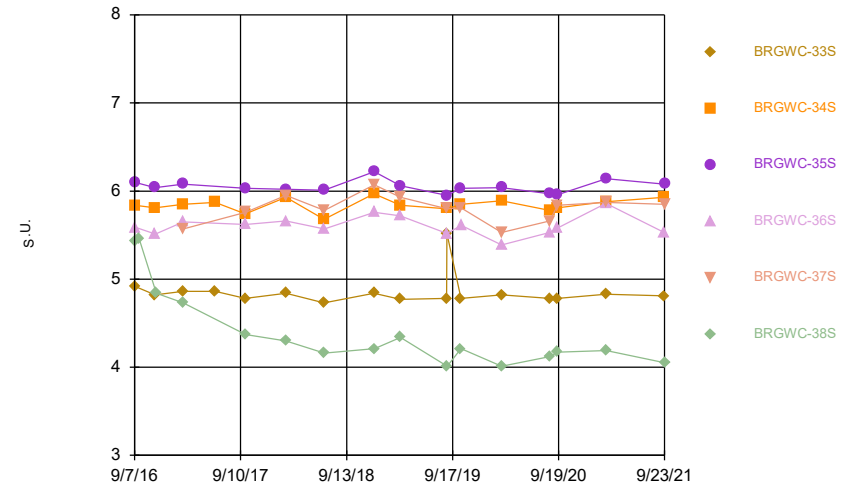
Constituent: Molybdenum Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



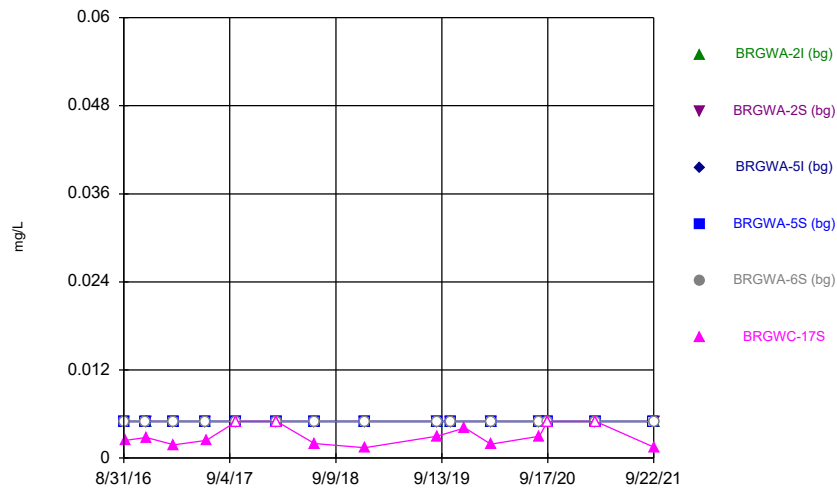
Constituent: pH, Field Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



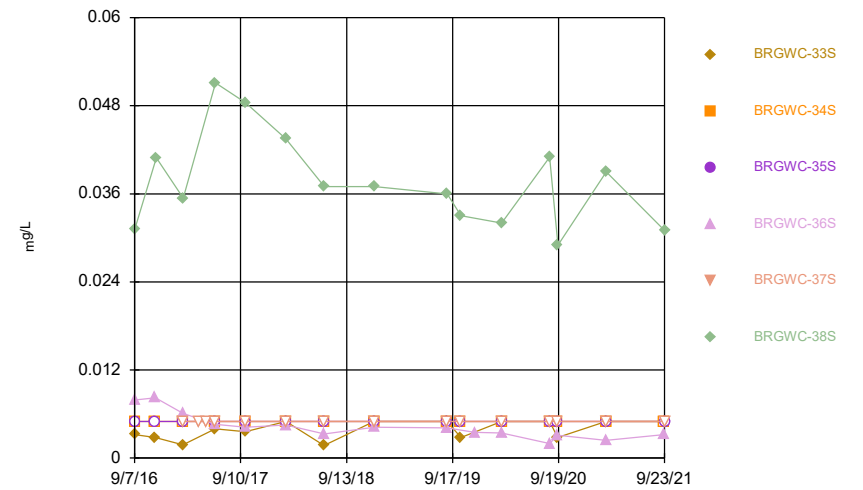
Constituent: pH, Field Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



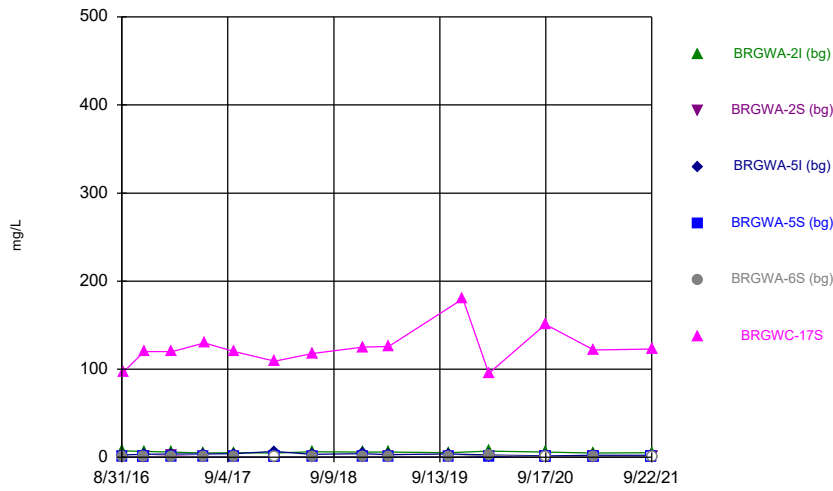
Constituent: Selenium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



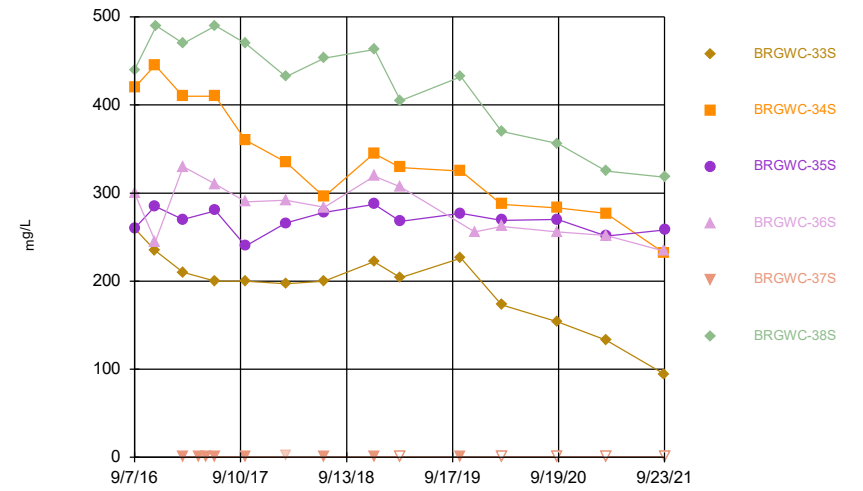
Constituent: Selenium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



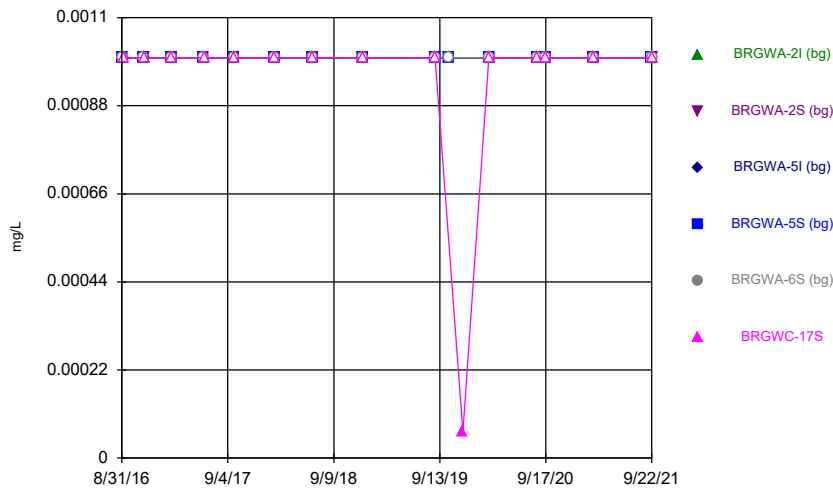
Constituent: Sulfate Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



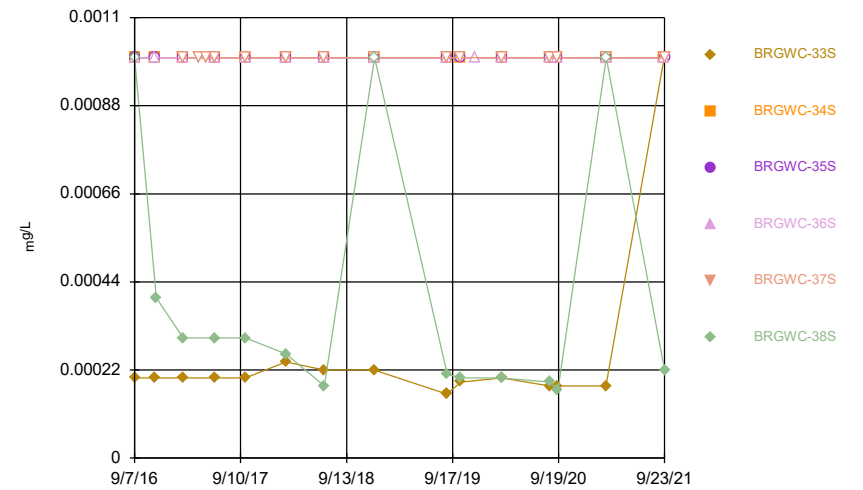
Constituent: Sulfate Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



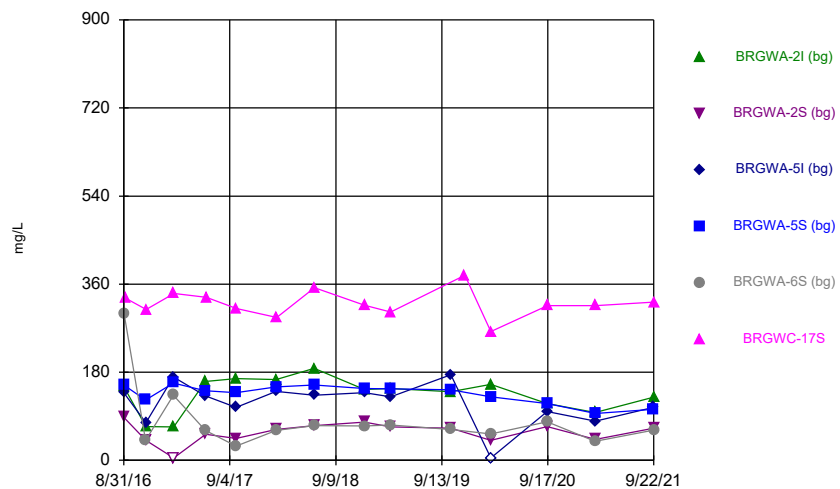
Constituent: Thallium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



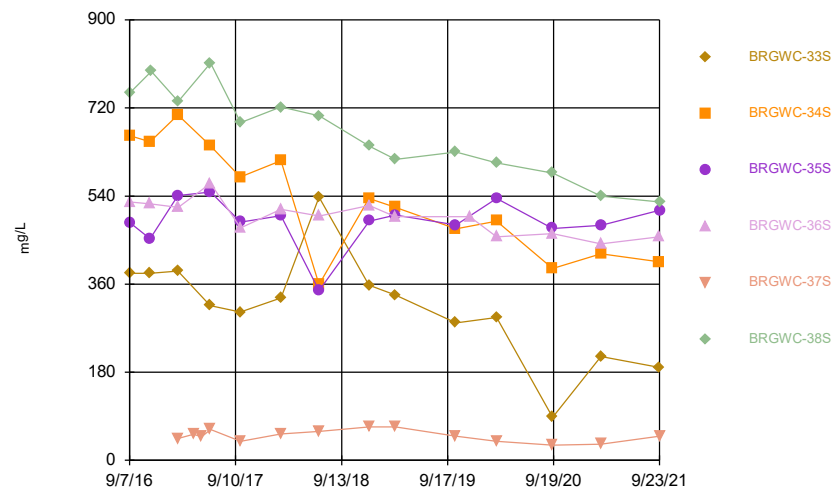
Constituent: Thallium Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/27/2021 4:34 PM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003		<0.003
11/18/2016	0.0016 (J)		
11/21/2016			0.0009 (J)
2/23/2017	<0.003	<0.003	<0.003
4/17/2017		0.0004 (J)	
5/15/2017		<0.003	
6/15/2017	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003
6/28/2018	<0.003	<0.003	<0.003
12/19/2018	<0.003	<0.003	
12/20/2018			<0.003
8/28/2019	0.00035 (J)	<0.003	
8/29/2019			<0.003
10/16/2019		<0.003	<0.003
12/3/2019	0.00049 (J)		
3/5/2020	<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	
9/17/2020			<0.003
3/3/2021	<0.003	<0.003	
3/4/2021			<0.003
9/22/2021	<0.003		
9/23/2021		<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.005		0.0026 (J)
11/18/2016	<0.005		
11/21/2016			0.0034 (J)
2/23/2017	<0.005	<0.005	0.003 (J)
4/17/2017		<0.005	
5/15/2017		<0.005	
6/15/2017	0.0007 (J)	<0.005	0.005 (J)
9/28/2017	<0.005	<0.005	0.0046 (J)
2/15/2018	<0.005	<0.005	0.0016 (J)
6/28/2018	<0.005 (X)	<0.005 (X)	<0.005 (X)
12/19/2018	<0.005	<0.005	
12/20/2018			0.00098 (J)
8/28/2019	0.00045 (J)	0.00038 (J)	
8/29/2019			0.0013 (J)
10/16/2019		0.00078 (J)	0.0024 (J)
12/3/2019	0.001 (J)		
3/5/2020	<0.005	0.00044 (J)	0.0011 (J)
8/19/2020	<0.005	<0.005	0.0021 (J)
9/16/2020	<0.005	<0.005	
9/17/2020			0.0015 (J)
3/3/2021	<0.005	<0.005	
3/4/2021			0.0029 (J)
9/22/2021	<0.005		
9/23/2021		<0.005	0.002 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0674		0.044
11/18/2016	0.0546		
11/21/2016			0.0428 (J)
2/23/2017	0.0489	0.0229	0.0338
4/17/2017		0.0227	
5/15/2017		0.0227	
6/15/2017	0.0415	0.0218	0.0239
9/28/2017	0.0397	0.0222	0.0247
2/15/2018	0.038	0.0243	0.0215
6/28/2018	0.035	0.023	0.018
12/19/2018	0.035	0.024	
12/20/2018			0.017
8/28/2019	0.034	0.027	
8/29/2019			0.016
10/16/2019		0.024	0.015
12/3/2019	0.031		
3/5/2020	0.033	0.025	0.016
8/19/2020	0.037	0.026	0.016
9/16/2020	0.03	0.024	
9/17/2020			0.014
3/3/2021	0.031	0.024	
3/4/2021			0.015
9/22/2021	0.028		
9/23/2021		0.027	0.014

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.0005		0.0079
9/23/2016			0.0096 (R)
11/18/2016	0.0001 (J)		
11/21/2016			0.0092
2/23/2017	0.0001 (J)	<0.0005	0.01
4/17/2017		<0.0005	
5/15/2017		<0.0005	
6/15/2017	9E-05 (J)	<0.0005	0.0104
9/28/2017	0.0001 (J)	<0.0005	0.0098
2/15/2018	<0.0005	<0.0005	0.011 (J)
6/28/2018	8.1E-05 (J)	<0.0005	0.0085
12/19/2018	<0.0005 (X)	<0.0005	
12/20/2018			0.0092
8/28/2019	0.00011 (J)	<0.0005	
8/29/2019			0.0088
10/16/2019		<0.0005	0.0079
10/17/2019	<0.0005		
12/3/2019	9.7E-05 (J)		
3/5/2020	9.2E-05 (J)	<0.0005	0.0082
8/19/2020	0.00011 (J)	<0.0005	0.0079
9/16/2020	8E-05 (J)	<0.0005	
9/17/2020			0.0073
3/3/2021	7.9E-05 (J)	<0.0005	
3/4/2021			0.0077
9/22/2021	8.4E-05 (J)		
9/23/2021		<0.0005	0.0071

Time Series

Constituent: Boron (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.725		1.73
11/18/2016	0.831		
11/21/2016			2.02
2/23/2017	0.949	<0.04	1.77
4/17/2017		<0.04	
5/15/2017		<0.04	
6/15/2017	0.961	<0.04	1.78
9/28/2017	0.948	<0.04	1.45
2/15/2018	1.11	<0.04	2.09
6/28/2018	0.89	<0.04 (X)	1.5
12/19/2018	1.1	<0.04	
12/20/2018			1.7
3/19/2019	1		
3/20/2019		0.004 (J)	1.5
10/16/2019		0.0055 (J)	1.5
10/17/2019	1.1		
12/3/2019	1		
3/5/2020	1.1	0.0076 (J)	1.6
9/16/2020	0.99	0.0062 (J)	
9/17/2020			1.4
3/3/2021	1	<0.04	
3/4/2021			1.5
9/22/2021	1.1		
9/23/2021		<0.04	1.4

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	8E-05 (J)		0.0004 (J)
11/18/2016	<0.0005		
11/21/2016			0.0005 (J)
2/23/2017	0.0001 (J)	<0.0005	0.0007 (J)
4/17/2017		<0.0005	
5/15/2017		<0.0005	
6/15/2017	<0.0005	<0.0005	0.0006 (J)
9/28/2017	<0.0005	<0.0005	0.0007 (J)
2/15/2018	<0.0005	<0.0005	0.00069 (J)
6/28/2018	<0.0005	<0.0005	0.00056 (J)
12/19/2018	<0.0005 (X)	<0.0005	
12/20/2018			<0.0005 (X)
8/28/2019	<0.0005	<0.0005	
8/29/2019			0.00053 (J)
10/16/2019		<0.0005	0.00057 (J)
10/17/2019	<0.0005		
12/3/2019	<0.0005		
3/5/2020	<0.0005	<0.0005	0.00059 (J)
8/19/2020	<0.0005	<0.0005	0.00056 (J)
9/16/2020	<0.0005	<0.0005	
9/17/2020			0.0005 (J)
3/3/2021	<0.0005	<0.0005	
3/4/2021			0.00042 (J)
9/22/2021	<0.0005		
9/23/2021		<0.0005	0.00048 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	50.6		45.9
11/18/2016	53.9		
11/21/2016			46.4
2/23/2017	51	3.26	43.5
4/17/2017		3.23	
5/15/2017		2.97 (B-01)	
6/15/2017	53.8	3.15	45.3
9/28/2017	51.8	3.26	45.1
2/15/2018	50.1	3.39	45.3
6/28/2018	51	3.1	45.9
12/19/2018	57.1	3.6	
12/20/2018			41.8
3/19/2019	49.5		
3/20/2019		3.3	38.2
10/16/2019		3.4	38.4
12/3/2019	47.8		
3/5/2020	51.7	3.7	39.8
9/16/2020	45.9	3.2	
9/17/2020			33.1
3/3/2021	53	3.6	
3/4/2021			41
9/22/2021	53.7		
9/23/2021		3.7	36.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	3.1		5.8
11/18/2016	3.95 (D)		
11/21/2016			5.05 (D)
2/23/2017	3.2	2.1	4.1
4/17/2017		1.8	
5/15/2017		1.8	
6/15/2017	4	1.9	4.8
9/28/2017	4.6	1.9	6.7
2/15/2018	5.4	2.3	8
6/28/2018	9 (J-X)	2.1 (J-X)	5.5 (J-X)
12/19/2018	6.2 (J-X)	1.9 (J-X)	
12/20/2018			8 (J-X)
3/19/2019	7.1		
3/20/2019		2.3	6.6
10/16/2019		2.3	6.4
12/3/2019	7.7		
3/5/2020	7.6	1.8	5.8
9/16/2020	7.9	1.8	
9/17/2020			6.1
3/3/2021	8.1	1.9	
3/4/2021			5.6
9/22/2021	7.1		
9/23/2021		1.9	6

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0073 (J)		0.0014 (J)
11/18/2016	0.008 (J)		
11/21/2016			0.003 (J)
2/23/2017	0.0086 (J)	0.001 (J)	0.0028 (J)
4/17/2017		0.0018 (J)	
5/15/2017		0.0014 (J)	
6/15/2017	0.0082 (J)	0.0013 (J)	0.0038 (J)
9/28/2017	0.0083 (J)	0.0014 (J)	0.0037 (J)
2/15/2018	0.0086 (J)	<0.005	0.0044 (J)
6/28/2018	0.0076 (J)	<0.005	0.0041 (J)
12/19/2018	0.0085 (J)	<0.005	
12/20/2018			0.0041 (J)
8/28/2019	0.0078 (J)	0.0017 (J)	
8/29/2019			0.0044 (J)
10/16/2019		0.0014 (J)	0.0038 (J)
12/3/2019	0.007 (J)		
3/5/2020	0.0087 (J)	0.0016 (J)	0.0038 (J)
8/19/2020	0.0094 (J)	0.0017 (J)	0.0043 (J)
9/16/2020	0.0064 (J)	0.0018 (J)	
9/17/2020			0.0042 (J)
3/3/2021	0.0067	0.0014 (J)	
3/4/2021			0.004 (J)
9/22/2021	0.0065		
9/23/2021		0.0016 (J)	0.004 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.005		0.236
11/18/2016	<0.005		
11/21/2016			0.298
2/23/2017	<0.005	<0.005	0.277
4/17/2017		<0.005	
5/15/2017		<0.005	
6/15/2017	<0.005	<0.005	0.262
9/28/2017	<0.005	<0.005	0.279
2/15/2018	<0.005	<0.005	0.279
6/28/2018	<0.005	<0.005	0.23
12/19/2018	<0.005	<0.005	
12/20/2018			0.25
8/28/2019	<0.005	<0.005	
8/29/2019			0.21
10/16/2019		<0.005	0.21
10/17/2019	<0.005		
12/3/2019	<0.005		
3/5/2020	<0.005	<0.005	0.22
8/19/2020	<0.005	<0.005	0.22
9/16/2020	<0.005	<0.005	
9/17/2020			0.2
3/3/2021	<0.005	<0.005	
3/4/2021			0.2
9/22/2021	<0.005		
9/23/2021		<0.005	0.17

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.638 (U)		0.816 (U)
11/18/2016	1.22 (U)		
11/21/2016			2.94
2/23/2017	0.554 (U)	0.567 (U)	1.92
4/17/2017		0.335 (U)	
5/15/2017		0.261 (U)	
6/15/2017	0.77 (U)	0.188 (U)	3.6
9/28/2017	1.07 (U)	0.627 (U)	3.3
2/15/2018	0.751 (U)	0.869 (U)	2.31 (J+X)
6/28/2018	0.392 (U)	0.336 (U)	1.75 (UX)
12/19/2018	0.693 (U)	0.454 (U)	
12/20/2018			2.8 (J+X)
8/28/2019	0.866 (U)	0.809 (U)	
8/29/2019			3.68
10/16/2019		0.815 (U)	2.66
12/18/2019	1.91		
3/5/2020	1.3	0.791 (U)	2.21
8/19/2020	1.4	0.582 (U)	3.17
9/16/2020	1.17 (U)	0.844 (U)	
9/17/2020			2.92
3/3/2021	0.307 (U)	1.12	
3/4/2021			1.99
9/22/2021	0.808 (U)		
9/23/2021		0.078 (U)	1.4

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.18 (J)		0.66
11/18/2016	0.03 (J)		
11/21/2016			0.9 (D)
2/23/2017	0.07 (J)	0.1 (J)	0.75
4/17/2017		0.08 (J)	
5/15/2017		0.02 (J)	
6/15/2017	0.01 (J)	0.03 (J)	0.77
9/28/2017	<0.1	<0.1	0.8
2/15/2018	<0.1	<0.1	0.82
6/28/2018	0.51 (J+X)	<0.1	1.5 (J+X)
12/19/2018	<0.1	0.094 (J)	
12/20/2018			0.68
3/19/2019	<0.1		
3/20/2019		0.062 (J)	0.95
8/28/2019	<0.1	<0.1	
8/29/2019			0.9
10/16/2019		0.059 (J)	0.61
12/3/2019	0.15 (J)		
3/5/2020	<0.1	0.05 (J)	0.92
8/19/2020	0.051 (J)	0.055 (J)	0.95
9/16/2020	<0.1	<0.1	
9/17/2020			0.68
3/3/2021	<0.1	<0.1	
3/4/2021			0.83
9/22/2021	0.054 (J)		
9/23/2021		<0.1	0.85

Time Series

Constituent: Lead (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.001		0.0004 (J)
11/18/2016	<0.001		
11/21/2016			0.0005 (J)
2/23/2017	<0.001	<0.001	0.0005 (J)
4/17/2017		0.0001 (J)	
5/15/2017		<0.001	
6/15/2017	<0.001	<0.001	0.0004 (J)
9/28/2017	<0.001	0.0001 (J)	0.0004 (J)
2/15/2018	<0.001	<0.001	0.00047 (J)
6/28/2018	<0.001	<0.001	0.00036 (J)
12/19/2018	<0.001	<0.001	
12/20/2018			0.00039 (J)
8/28/2019	<0.001	<0.001	
8/29/2019			0.00035 (J)
10/16/2019		<0.001	0.00035 (J)
12/3/2019	<0.001		
3/5/2020	<0.001	<0.001	0.00041 (J)
8/19/2020	4.7E-05 (J)	<0.001	0.00031 (J)
9/16/2020	<0.001	<0.001	
9/17/2020			0.00032 (J)
3/3/2021	<0.001	<0.001	
3/4/2021			0.00034 (J)
9/22/2021	<0.001		
9/23/2021		<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0024 (J)		0.0193 (J)
11/18/2016	0.0026 (J)		
11/21/2016			0.0223 (J)
2/23/2017	0.0026 (J)	<0.03	0.0229 (J)
4/17/2017		<0.03	
5/15/2017		<0.03	
6/15/2017	0.0026 (J)	<0.03	0.0227 (J)
9/28/2017	0.0025 (J)	<0.03	0.023 (J)
2/15/2018	<0.03	<0.03	0.0254 (J)
6/28/2018	0.0022 (J)	<0.03	0.021 (J)
12/19/2018	0.0026 (J)	<0.03	
12/20/2018			0.022 (J)
8/28/2019	0.0025 (J)	<0.03	
8/29/2019			0.021 (J)
10/16/2019		<0.03	0.02 (J)
12/3/2019	0.0024 (J)		
3/5/2020	0.0025 (J)	<0.03	0.021 (J)
8/19/2020	0.0024 (J)	<0.03	0.021 (J)
9/16/2020	0.0022 (J)	<0.03	
9/17/2020			0.02 (J)
3/3/2021	0.0024 (J)	<0.03	
3/4/2021			0.021 (J)
9/22/2021	0.0026 (J)		
9/23/2021		<0.03	0.019 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.0002		7E-05 (J)
11/18/2016	<0.0002		
11/21/2016			0.00012 (J)
2/23/2017	<0.0002	<0.0002	7E-05 (J)
4/17/2017		<0.0002	
5/15/2017		<0.0002	
6/15/2017	7E-05 (J)	6E-05 (J)	0.00016 (J)
9/28/2017	<0.0002	<0.0002	0.00011 (J)
2/15/2018	<0.0002	<0.0002	0.00015 (J)
6/28/2018	<0.0002	<0.0002	<0.0002 (X)
12/19/2018	<0.0002	<0.0002	
12/20/2018			0.00017 (J)
8/28/2019	<0.0002	<0.0002	
8/29/2019			0.00018 (J)
8/19/2020	0.00013 (J)	0.00014 (J)	0.00018 (J)
9/16/2020	<0.0002	<0.0002	
9/17/2020			0.00011 (J)
3/3/2021	<0.0002	<0.0002	
3/4/2021			8.5E-05 (J)
9/22/2021	0.0001 (J)		
9/23/2021		0.00011 (J)	0.00022

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.01		<0.01
11/18/2016	<0.01		
11/21/2016			<0.01
2/23/2017	<0.01	<0.01	<0.01
4/17/2017		<0.01	
5/15/2017		<0.01	
6/15/2017	<0.01	<0.01	<0.01
9/28/2017	<0.01	<0.01	<0.01
2/15/2018	<0.01	<0.01	<0.01
6/28/2018	<0.01	<0.01	<0.01
12/19/2018	<0.01	<0.01	
12/20/2018			<0.01
8/28/2019	<0.01	<0.01	
8/29/2019			<0.01
10/16/2019		<0.01	<0.01
12/3/2019	<0.01		
3/5/2020	<0.01	<0.01	<0.01
8/19/2020	<0.01	<0.01	<0.01
9/16/2020	<0.01	<0.01	
9/17/2020			<0.01
3/3/2021	<0.01	<0.01	
3/4/2021			<0.01
9/22/2021	<0.01		
9/23/2021		<0.01	<0.01

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	5.59		5.43
9/23/2016			5.46
11/18/2016	5.51		
11/21/2016			4.84
2/23/2017	5.65	5.57	4.73
9/28/2017	5.62	5.76	4.37
2/15/2018	5.66	5.95	4.3
6/28/2018	5.57	5.78	4.16
12/19/2018	5.76	6.07	
12/20/2018			4.21
3/19/2019	5.72		
3/20/2019		5.93	4.34
8/28/2019	5.52	5.8	
8/29/2019			4.01
10/16/2019		5.81	4.21
10/17/2019	5.61		
3/5/2020	5.39	5.53	4.01
8/19/2020	5.53	5.66	4.12
9/16/2020	5.58	5.84	
9/17/2020			4.17
3/3/2021	5.86	5.87	
3/4/2021			4.19
9/22/2021	5.53		
9/23/2021		5.85	4.05

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0079 (J)		0.0311
11/18/2016	0.0082 (J)		
11/21/2016			0.0409
2/23/2017	0.0061 (J)	<0.005	0.0354
4/17/2017		<0.005	
5/15/2017		<0.005	
6/15/2017	0.0046 (J)	<0.005	0.0511
9/28/2017	0.0042 (J)	<0.005	0.0484
2/15/2018	0.0045 (J)	<0.005	0.0435
6/28/2018	0.0033 (J)	<0.005	0.037
12/19/2018	0.0042 (J)	<0.005	
12/20/2018			0.037
8/28/2019	0.0041 (J)	<0.005	
8/29/2019			0.036
10/16/2019		<0.005	0.033
12/3/2019	0.0035 (J)		
3/5/2020	0.0034 (J)	<0.005	0.032
8/19/2020	0.002 (J)	<0.005	0.041
9/16/2020	0.0031 (J)	<0.005	
9/17/2020			0.029
3/3/2021	0.0024 (J)	<0.005	
3/4/2021			0.039
9/22/2021	0.0032 (J)		
9/23/2021		<0.005	0.031

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	300		440
11/18/2016	245 (D)		
11/21/2016			490 (D)
2/23/2017	330	0.55 (J)	470
4/17/2017		0.44 (J)	
5/15/2017		0.45 (J)	
6/15/2017	310	0.46 (J)	490
9/28/2017	290	0.49 (J)	470
2/15/2018	292	1.9 (o)	432
6/28/2018	284	0.24 (J)	453
12/19/2018	319	0.4 (J)	
12/20/2018			463
3/19/2019	307		
3/20/2019		<1 (X)	405
10/16/2019		0.29 (J)	432
12/3/2019	256		
3/5/2020	262	<1	370
9/16/2020	256	<1	
9/17/2020			356
3/3/2021	252	<1	
3/4/2021			325
9/22/2021	234		
9/23/2021		<1	318

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.001		<0.001
11/18/2016	<0.001		
11/21/2016			0.0004 (J)
2/23/2017	<0.001	<0.001	0.0003 (J)
4/17/2017		<0.001	
5/15/2017		<0.001	
6/15/2017	<0.001	<0.001	0.0003 (J)
9/28/2017	<0.001	<0.001	0.0003 (J)
2/15/2018	<0.001	<0.001	0.00026 (J)
6/28/2018	<0.001	<0.001	0.00018 (J)
12/19/2018	<0.001	<0.001	
12/20/2018			<0.001 (X)
8/28/2019	<0.001	<0.001	
8/29/2019			0.00021 (J)
10/16/2019		<0.001	0.0002 (J)
12/3/2019	<0.001		
3/5/2020	<0.001	<0.001	0.0002 (J)
8/19/2020	<0.001	<0.001	0.00019 (J)
9/16/2020	<0.001	<0.001	
9/17/2020			0.00017 (J)
3/3/2021	<0.001	<0.001	
3/4/2021			<0.001
9/22/2021	<0.001		
9/23/2021		<0.001	0.00022 (J)

Time Series

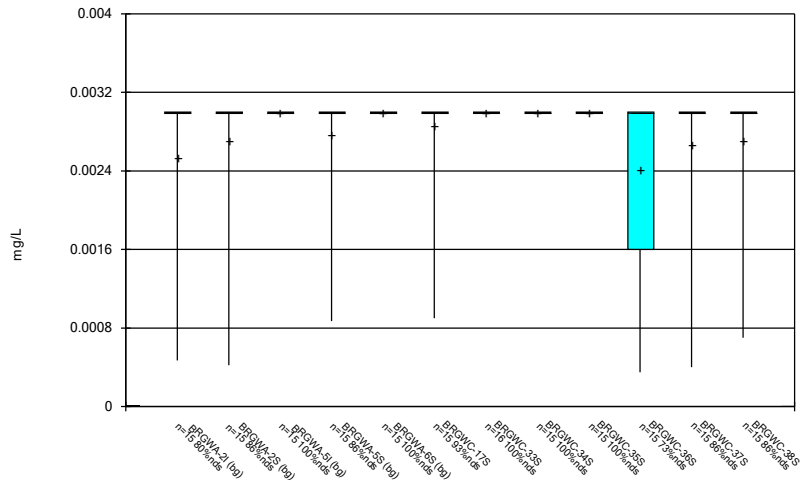
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/28/2021 7:39 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	528		750
11/18/2016	524		
11/21/2016			795
2/23/2017	517	45	733
4/17/2017		53	
5/15/2017		48	
6/15/2017	566	63	812
9/28/2017	475	39	690
2/15/2018	513	54	722
6/28/2018	499	59 (X)	704
12/19/2018	521	68	
12/20/2018			642
3/19/2019	498		
3/20/2019		68 (X)	615
10/16/2019		49	630
12/3/2019	498		
3/5/2020	457	39	608
9/16/2020	463	31	
9/17/2020			587
3/3/2021	442	33	
3/4/2021			540
9/22/2021	457		
9/23/2021		49	528

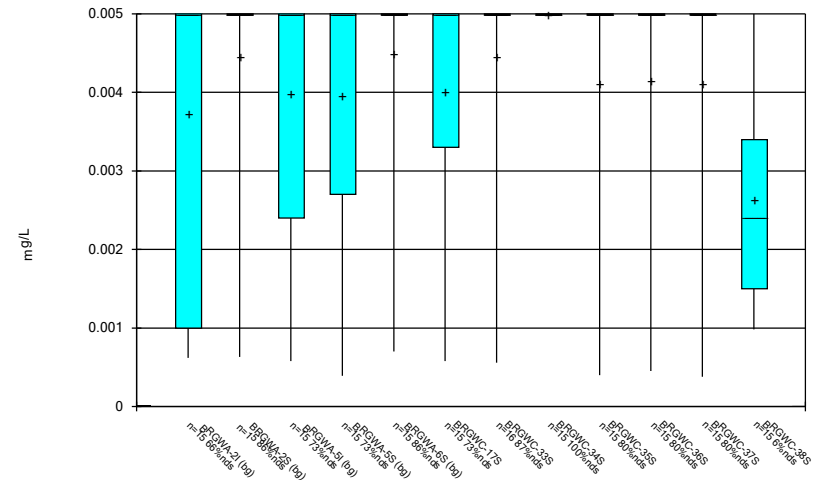
FIGURE B.

Box & Whiskers Plot



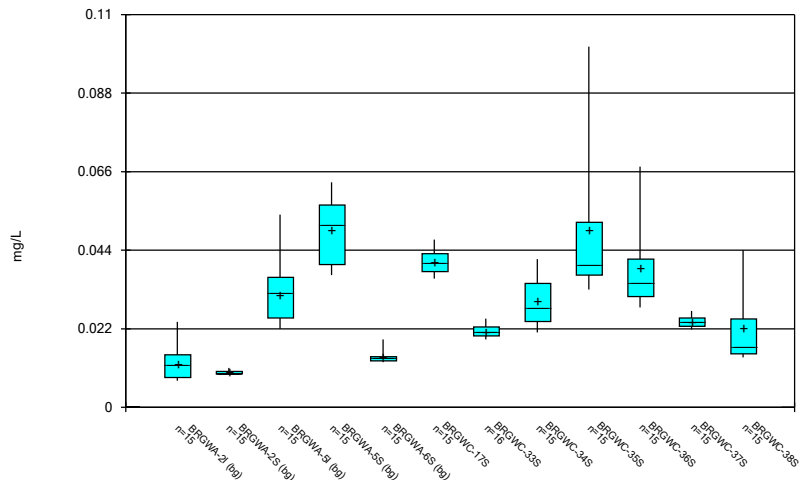
Constituent: Antimony Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



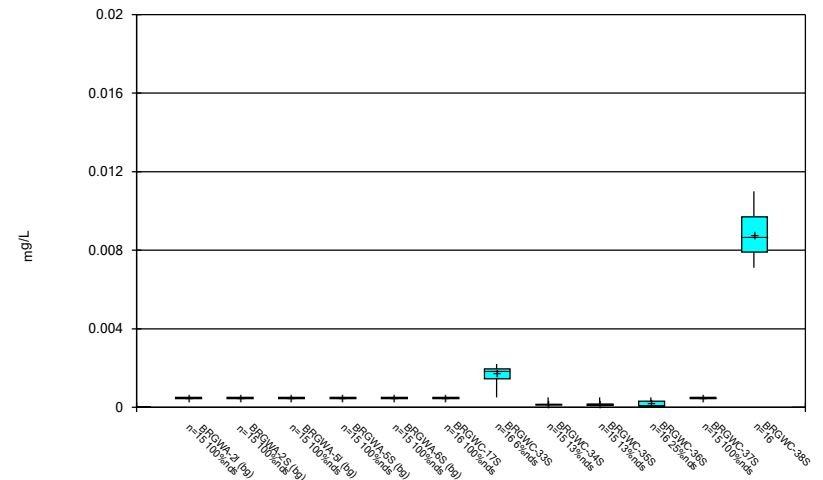
Constituent: Arsenic Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



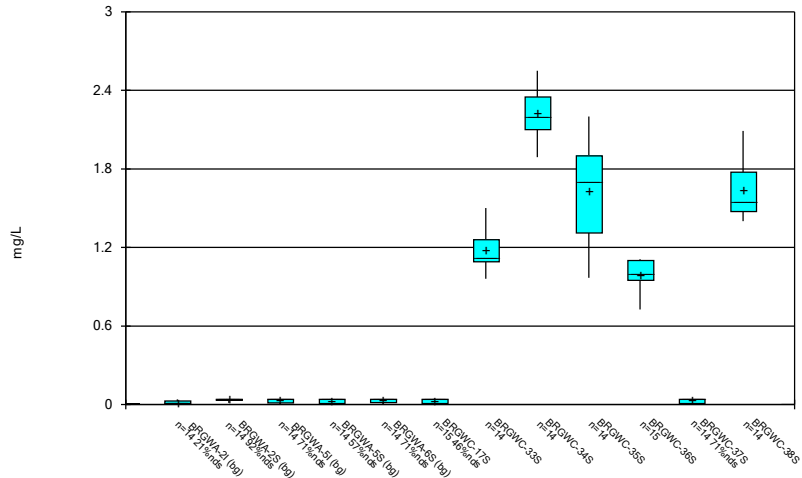
Constituent: Barium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



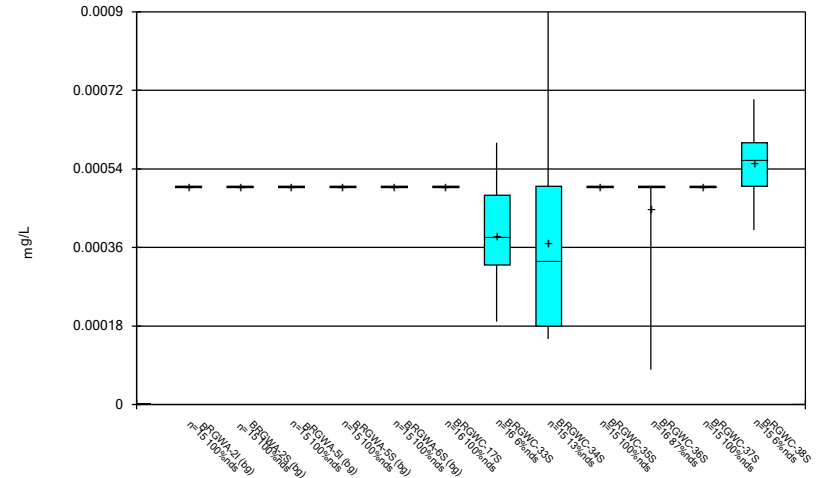
Constituent: Beryllium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



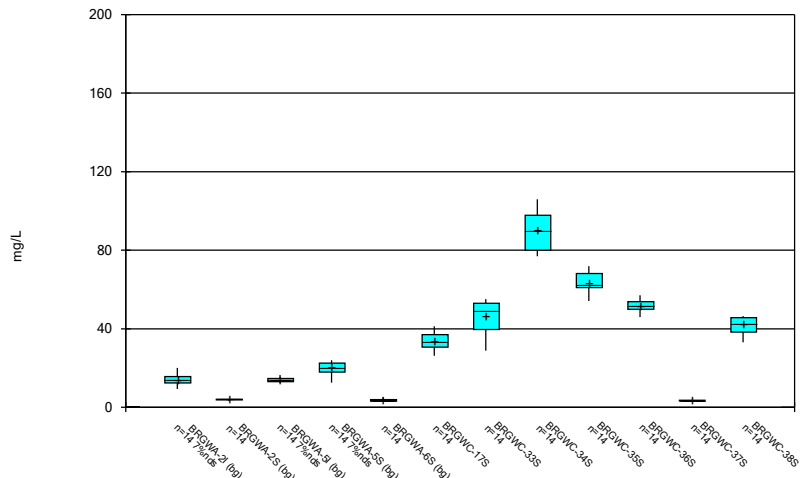
Constituent: Boron Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



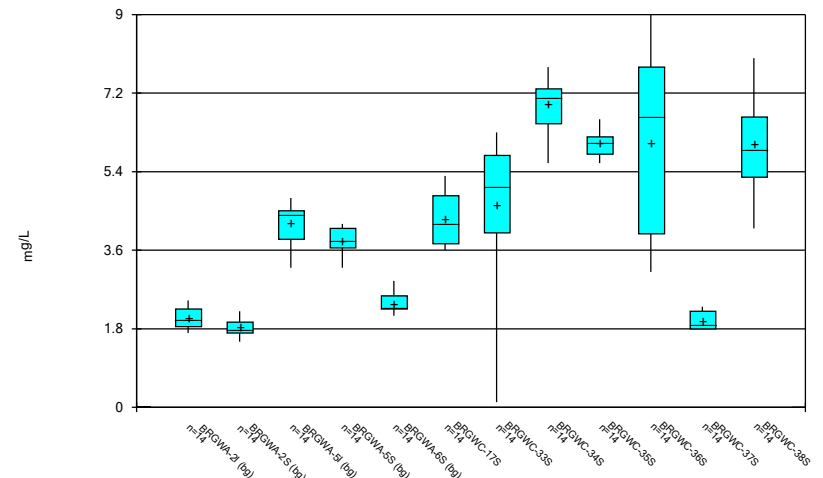
Constituent: Cadmium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



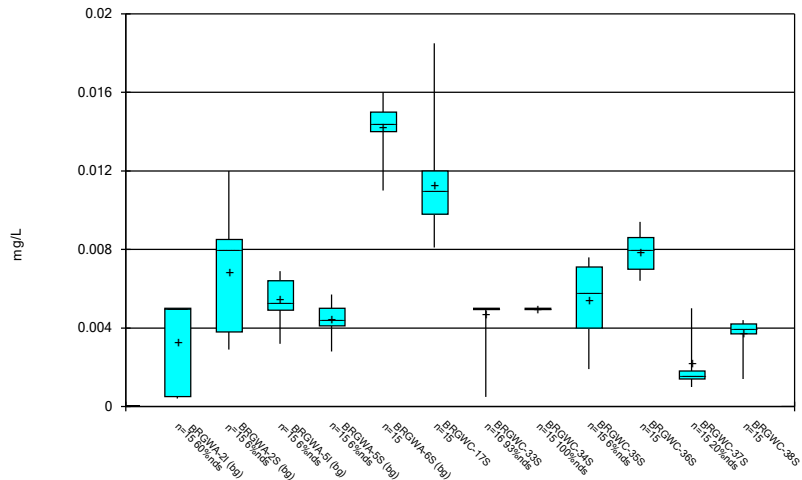
Constituent: Calcium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



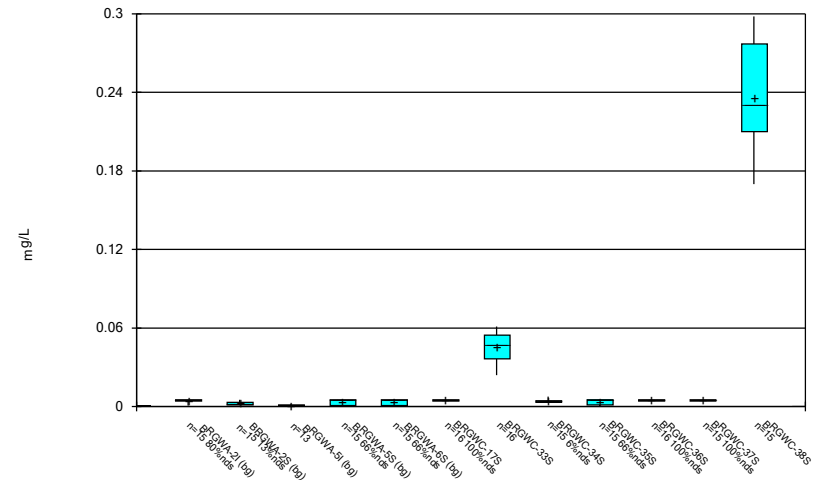
Constituent: Chloride Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



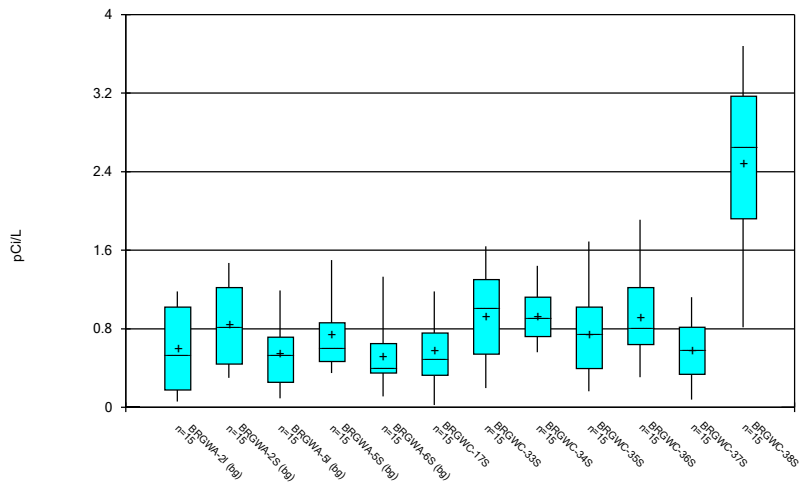
Constituent: Chromium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



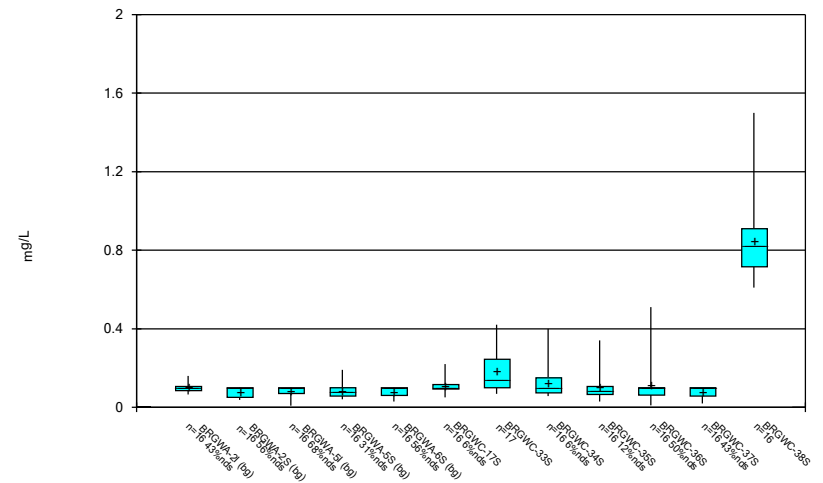
Constituent: Cobalt Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



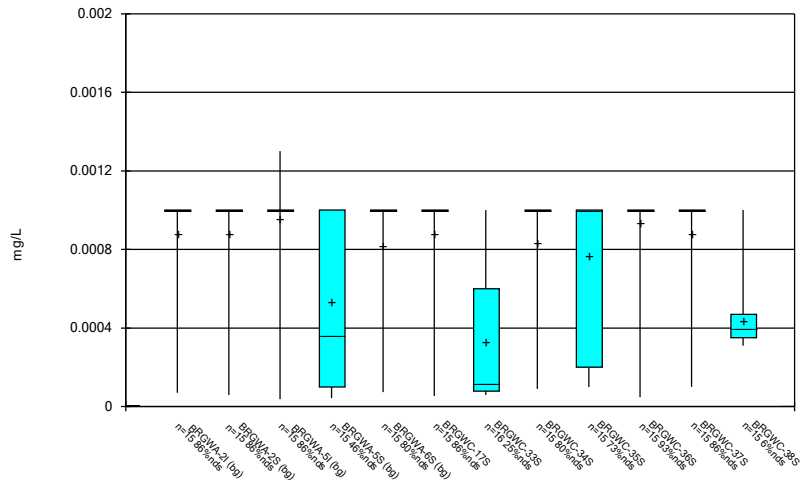
Constituent: Combined Radium 226 + 228 Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



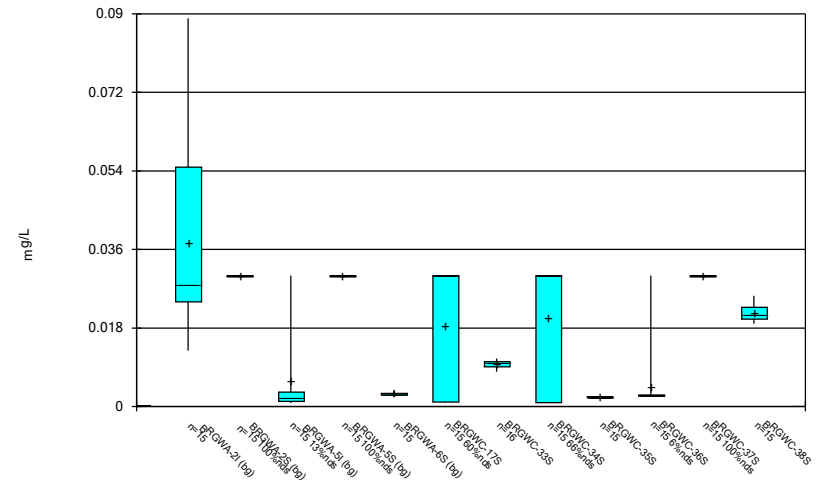
Constituent: Fluoride Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



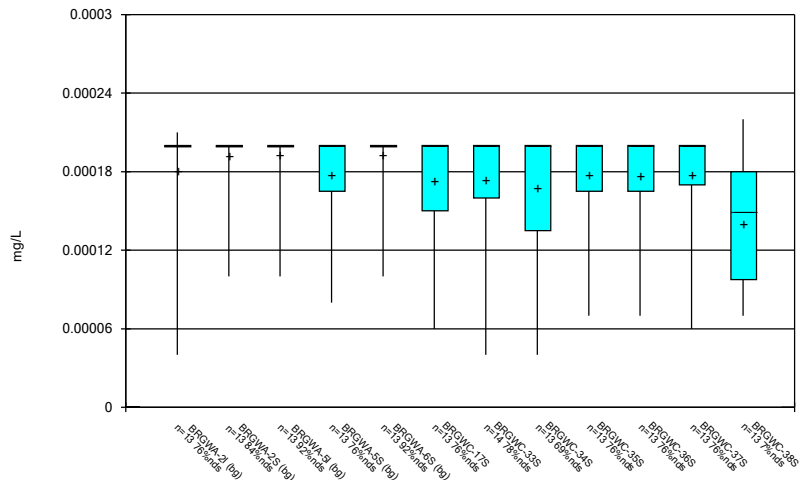
Constituent: Lead Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



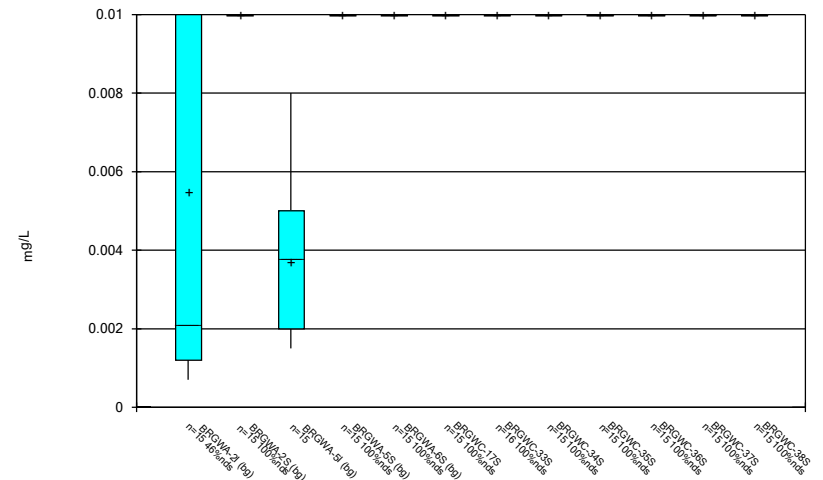
Constituent: Lithium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



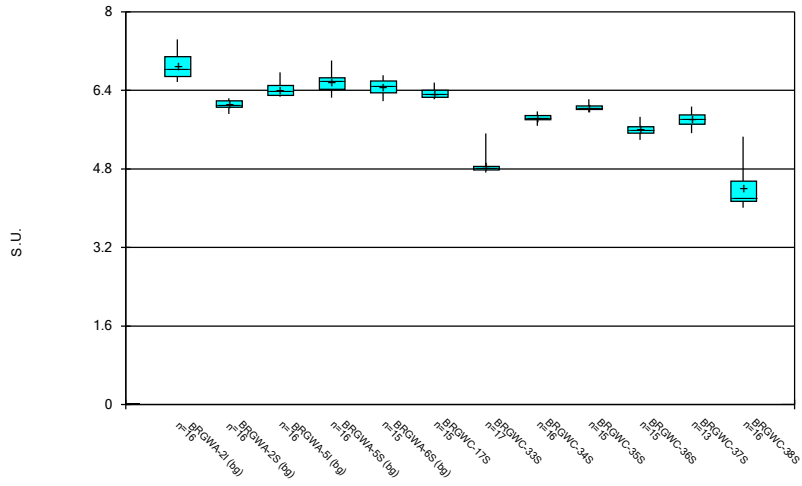
Constituent: Mercury Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



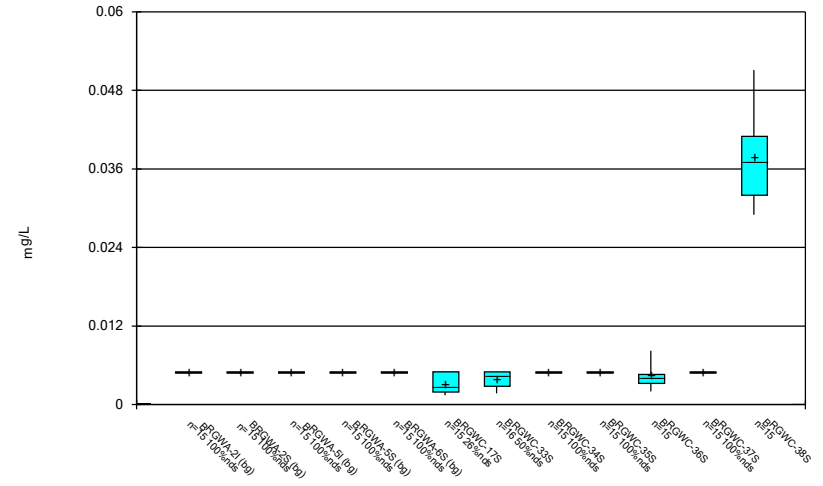
Constituent: Molybdenum Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



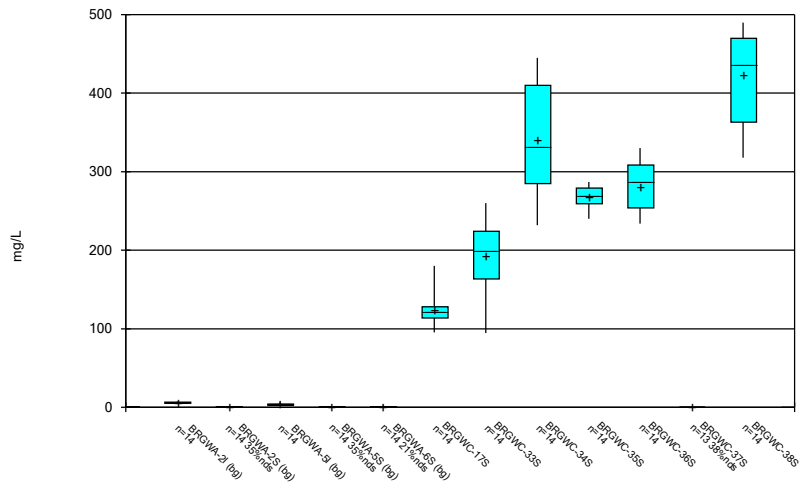
Constituent: pH, Field Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



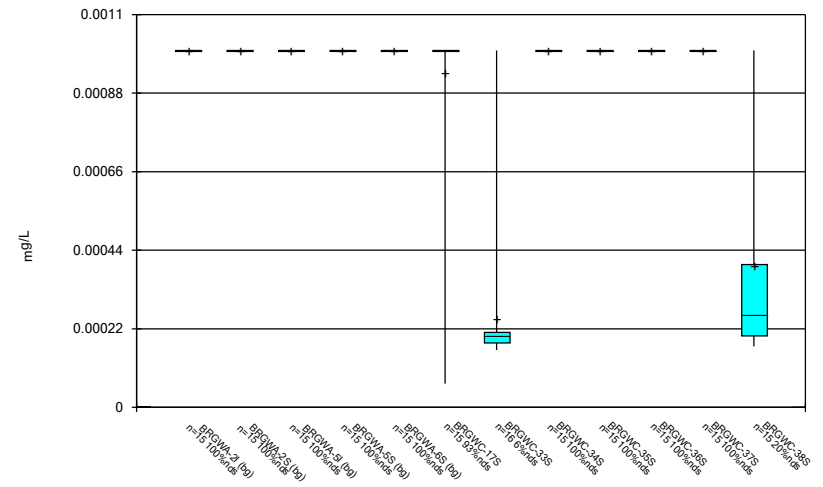
Constituent: Selenium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



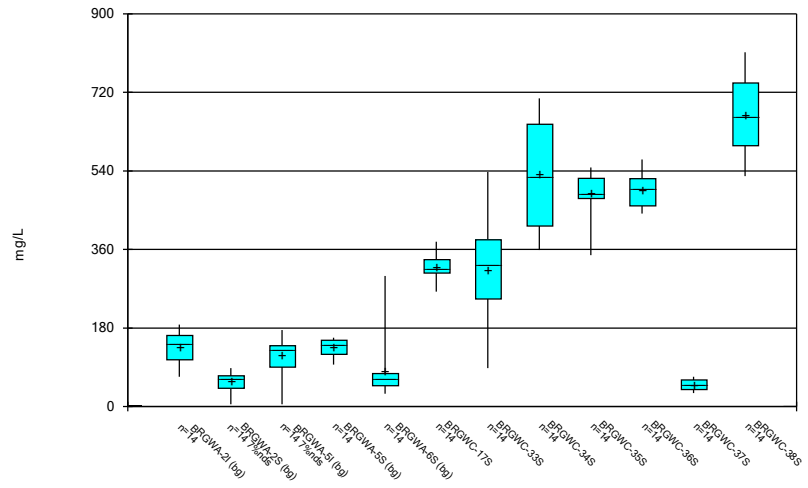
Constituent: Sulfate Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:40 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/5/2021, 11:58 AM

BRGWA-5I Cobalt (mg/L)
BRGWC-37S Sulfate (mg/L)

11/16/2016	<0.01 (o)	
2/13/2018	<0.01 (o)	
2/15/2018		1.9 (o)

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 7:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Boron (mg/L)	BRGWC-33S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	9/22/2021	2.2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	9/23/2021	2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	9/23/2021	1.4	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/22/2021	36.4	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/22/2021	28.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/22/2021	76.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/23/2021	70.5	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/22/2021	53.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/23/2021	36.8	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	9/22/2021	5.6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	9/23/2021	6.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	9/22/2021	7.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	9/23/2021	6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	9/23/2021	0.85	Yes	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.076	5.912	9/22/2021	4.81	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.076	5.912	9/22/2021	5.53	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.076	5.912	9/23/2021	5.85	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.076	5.912	9/23/2021	4.05	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	9/22/2021	123	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	9/22/2021	94.6	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	9/22/2021	232	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	9/23/2021	258	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	9/22/2021	234	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	9/23/2021	318	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	9/22/2021	323	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	9/22/2021	406	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	9/23/2021	511	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	9/22/2021	457	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	9/23/2021	528	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

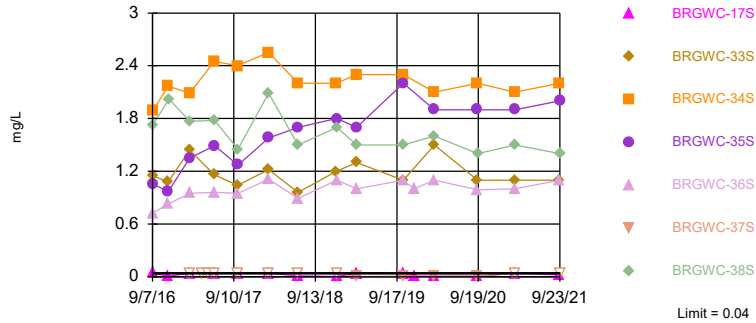
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 7:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.04	n/a	9/22/2021	0.02J	No	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	9/22/2021	2.2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	9/23/2021	2	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	9/22/2021	1.1	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-37S	0.04	n/a	9/23/2021	0.04ND	No	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	9/23/2021	1.4	Yes	70	n/a	n/a	62.86	n/a	n/a	0.0003866	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/22/2021	36.4	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/22/2021	28.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/22/2021	76.9	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/23/2021	70.5	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/22/2021	53.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-37S	24	n/a	9/23/2021	3.7	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/23/2021	36.8	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	9/22/2021	4.6	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	9/22/2021	2.7	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	9/22/2021	5.6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	9/23/2021	6.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	9/22/2021	7.1	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-37S	4.8	n/a	9/23/2021	1.9	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	9/23/2021	6	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.19	n/a	9/22/2021	0.1	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.19	n/a	9/22/2021	0.068J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.19	n/a	9/22/2021	0.1	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.19	n/a	9/23/2021	0.073J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.19	n/a	9/22/2021	0.054J	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.19	n/a	9/23/2021	0.1ND	No	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	9/23/2021	0.85	Yes	80	n/a	n/a	51.25	n/a	n/a	0.0002983	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-17S	7.076	5.912	9/22/2021	6.22	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.076	5.912	9/22/2021	4.81	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-34S	7.076	5.912	9/22/2021	5.93	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.076	5.912	9/23/2021	6.08	No	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.076	5.912	9/22/2021	5.53	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.076	5.912	9/23/2021	5.85	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.076	5.912	9/23/2021	4.05	Yes	79	6.494	0.3069	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	9/22/2021	123	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	9/22/2021	94.6	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	9/22/2021	232	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	9/23/2021	258	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	9/22/2021	234	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	9/23/2021	0.5ND	No	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	9/23/2021	318	Yes	70	n/a	n/a	18.57	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	9/22/2021	323	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	299	n/a	9/22/2021	190	No	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	9/22/2021	406	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	9/23/2021	511	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	9/22/2021	457	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-37S	299	n/a	9/23/2021	49	No	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	9/23/2021	528	Yes	70	n/a	n/a	2.857	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Sanitas™ v.9.6.31g Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric



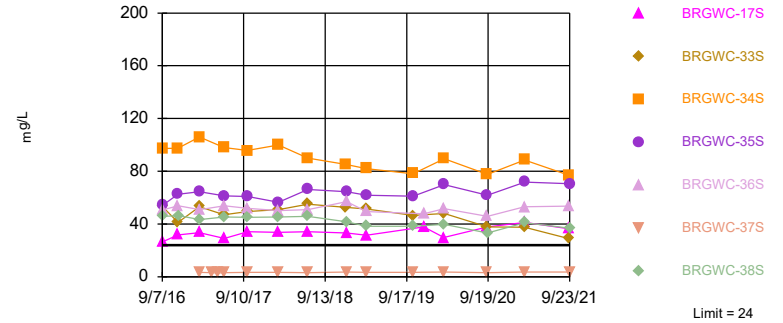
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 70 background values. 62.86% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/28/2021 7:46 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.9.6.31g Sanitas software utilized by Groundwater Stats Consulting, UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric



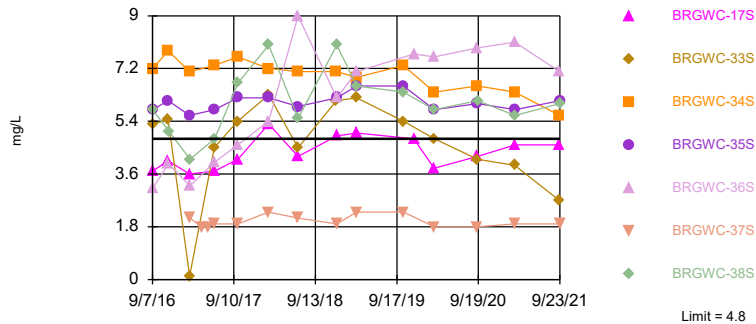
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 4.286% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/28/2021 7:46 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.9.6.31g Sanitas software utilized by Groundwater Stats Consulting, UG

Exceeds Limit: BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric



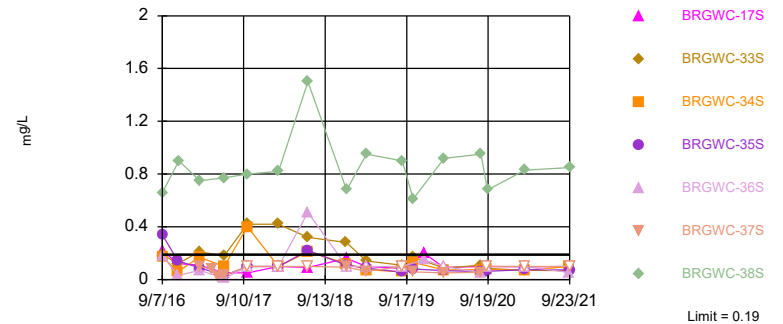
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/28/2021 7:46 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.9.6.31g Sanitas software utilized by Groundwater Stats Consulting, UG

Exceeds Limit: BRGWC-38S

Prediction Limit
Interwell Non-parametric

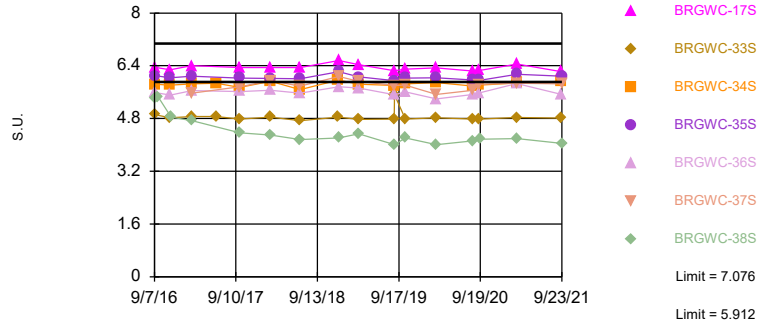


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 51.25% NDs. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/28/2021 7:46 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limits: BRGWC-33S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Prediction Limit
Interwell Parametric

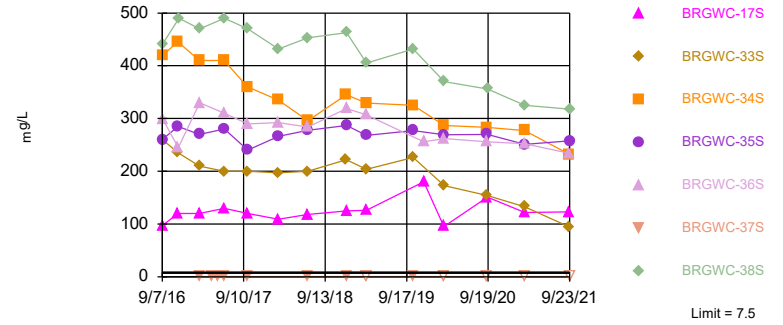


Background Data Summary: Mean=6.494, Std. Dev.=0.3069, n=79. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9661, critical = 0.957. Kappa = 1.897 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/28/2021 7:46 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric

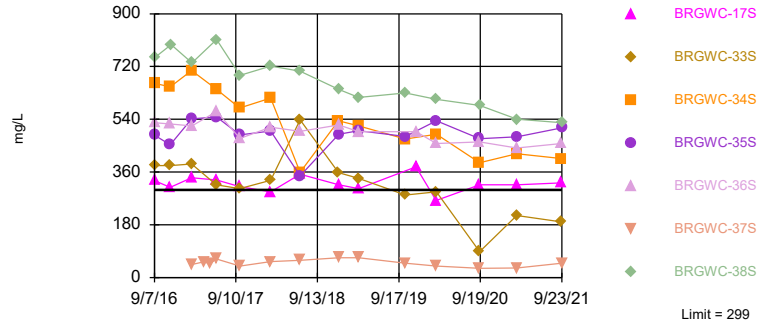


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 18.57% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/28/2021 7:47 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-17S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 2.857% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:47 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/28/2021 7:50 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-35S
8/31/2016	0.0072 (J)	<0.04	<0.04	<0.04					
9/1/2016					<0.04				
9/7/2016						1.73	0.0449 (J)	1.15	1.06
9/8/2016									
11/15/2016		0.0085 (J)			0.0123 (J)				
11/16/2016	0.0117 (J)		0.0187 (J)	0.0109 (J)					
11/17/2016							0.0067 (J)	1.08	0.967
11/18/2016									
11/21/2016						2.02			
2/20/2017		0.0093 (J)	0.0066 (J)		0.0157 (J)				
2/21/2017	0.0088 (J)			<0.04					
2/22/2017							<0.04	1.44	1.35
2/23/2017						1.77			
4/17/2017									
5/15/2017									
6/12/2017	0.0133 (J)	<0.04	<0.04		<0.04				
6/13/2017				<0.04					
6/14/2017								1.16	
6/15/2017						1.78	<0.04		1.49
9/26/2017	0.0093 (J)	<0.04	<0.04	<0.04	<0.04				
9/27/2017								1.04	
9/28/2017						1.45	<0.04		1.27
2/13/2018	0.0141 (J)	<0.04	<0.04	<0.04	<0.04				
2/15/2018						2.09	<0.04	1.22	1.58
6/26/2018	0.012 (J)	0.0056 (J)	0.0042 (J)	<0.04	0.0041 (J)				
6/27/2018							0.0088 (J+X)	0.96 (J+X)	1.7 (J+X)
6/28/2018						1.5			
12/18/2018	0.0086 (J)	0.0062 (J)	<0.04	<0.04	<0.04			1.2	
12/19/2018							0.0045 (J)		1.8
12/20/2018						1.7			
3/19/2019	0.00565 (JD)	<0.04	<0.04	<0.04	<0.04		<0.04		
3/20/2019						1.5		1.3	1.7
10/15/2019	0.0067 (J)	0.006 (J)	<0.04	<0.04	0.01 (J)				
10/16/2019						1.5		1.1	2.2
10/17/2019							<0.04		
12/3/2019							0.0063 (J)		
3/3/2020	0.0082 (J)	<0.04	<0.04	<0.04	<0.04		0.0075 (J)		
3/5/2020						1.6		1.5	1.9
9/15/2020	<0.04	<0.04	<0.04	<0.04	<0.04				
9/16/2020							0.0066 (J)	1.1	1.9
9/17/2020						1.4			
3/1/2021	<0.04				<0.04				
3/2/2021		0.0071 (J)	0.0053 (J)	<0.04					
3/3/2021								1.1	
3/4/2021						1.5	<0.04		1.9
9/21/2021		<0.04	<0.04						
9/22/2021	<0.04			<0.04	<0.04		0.02 (J)	1.1	
9/23/2021						1.4			2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/28/2021 7:50 AM View: PLs Interwell Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.725		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016		2.17	
11/18/2016	0.831		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		2.09	
2/23/2017	0.949		<0.04
4/17/2017			<0.04
5/15/2017			<0.04
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	0.961		<0.04
9/26/2017			
9/27/2017		2.4	
9/28/2017	0.948		<0.04
2/13/2018			
2/15/2018	1.11	2.55	<0.04
6/26/2018			
6/27/2018		2.2 (J+X)	
6/28/2018	0.89		<0.04 (X)
12/18/2018		2.2	
12/19/2018	1.1		<0.04
12/20/2018			
3/19/2019	1		
3/20/2019		2.3	0.004 (J)
10/15/2019			
10/16/2019		2.3	0.0055 (J)
10/17/2019	1.1		
12/3/2019	1		
3/3/2020			
3/5/2020	1.1	2.1	0.0076 (J)
9/15/2020			
9/16/2020	0.99	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	1	2.1	<0.04
3/4/2021			
9/21/2021			
9/22/2021	1.1	2.2	
9/23/2021			<0.04

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/28/2021 7:50 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-35S
8/31/2016	12.6	19.6	13.5	4.09					
9/1/2016					3.3				
9/7/2016						45.9	26.3	53.4	54.1
9/8/2016									
11/15/2016		21.7			3.44				
11/16/2016	12.1		14.9	4.25					
11/17/2016							31.8	41.3	62.6
11/18/2016									
11/21/2016						46.4			
2/20/2017		21.1	13.9		3.52				
2/21/2017	11.4			4.02					
2/22/2017							33.5	53.1	64.6
2/23/2017						43.5			
4/17/2017									
5/15/2017									
6/12/2017	9.34	21.5	13.7		3.11				
6/13/2017				3.84					
6/14/2017								47.1	
6/15/2017						45.3	29		61.3
9/26/2017	14.3	24	14.4	3.31	3.15				
9/27/2017								49.5	
9/28/2017						45.1	34.1		60.8
2/13/2018	<25	<25	<25	3.94	3.65				
2/15/2018						45.3	33.8	50.9	56.6
6/26/2018	16 (J)	23.5 (J)	13.5 (J)	3.6	3.3				
6/27/2018							34.1	55.1	66.2
6/28/2018						45.9			
12/18/2018	14.5 (J)	19.8 (J)	16.4 (J)	3.8	3.5			52.7	
12/19/2018							33.1		64.4
12/20/2018						41.8			
3/19/2019	14.3 (JD)	21.4 (J)	12.3 (J)	3.9	3.6		31.6		
3/20/2019						38.2		51.4	61.8
10/15/2019	15.1	20	14.4	3.7	3.5				
10/16/2019						38.4		46.5	61.2
12/3/2019							37.7		
3/3/2020	20	23.2	14.9	4	5		29.7		
3/5/2020						39.8		48.1	69.9
9/15/2020	14.1	16.8	12.7	3.9	3.7				
9/16/2020							37.9	37.9	61.8
9/17/2020						33.1			
3/1/2021	15.4				4.2				
3/2/2021		16.8	13.2	4					
3/3/2021								37.5	
3/4/2021						41	41.2		71.8
9/21/2021		19.1	14.1						
9/22/2021	15.9			4.3	4.1		36.4	28.9	
9/23/2021						36.8			70.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/28/2021 7:50 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	50.6		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016		97.6	
11/18/2016	53.9		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		106	
2/23/2017	51		3.26
4/17/2017			3.23
5/15/2017			2.97 (B-01)
6/12/2017			
6/13/2017			
6/14/2017		98	
6/15/2017	53.8		3.15
9/26/2017			
9/27/2017		95.8	
9/28/2017	51.8		3.26
2/13/2018			
2/15/2018	50.1	100	3.39
6/26/2018			
6/27/2018		90.1	
6/28/2018	51		3.1
12/18/2018		85.1	
12/19/2018	57.1		3.6
12/20/2018			
3/19/2019	49.5		
3/20/2019		82	3.3
10/15/2019			
10/16/2019		78.2	3.4
12/3/2019	47.8		
3/3/2020			
3/5/2020	51.7	89.6	3.7
9/15/2020			
9/16/2020	45.9	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	53	88.6	3.6
3/4/2021			
9/21/2021			
9/22/2021	53.7	76.9	
9/23/2021			3.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-35S
8/31/2016	2.3	3.6	4.4	2					
9/1/2016					2.5				
9/7/2016						5.8	3.7	5.3	5.8
9/8/2016									
11/15/2016		4			2.3				
11/16/2016	2		4.4	1.8					
11/17/2016							4.05 (D)	5.45 (D)	6.1 (D)
11/18/2016									
11/21/2016						5.05 (D)			
2/20/2017		3.9	4.8		2.4				
2/21/2017	2			1.8					
2/22/2017							3.6	0.12 (J)	5.6
2/23/2017						4.1			
4/17/2017									
5/15/2017									
6/12/2017	2.1	3.8	4.2		2.2				
6/13/2017				1.7					
6/14/2017								4.5	
6/15/2017						4.8	3.7		5.8
9/26/2017	2	4.1	4.4	1.8	2.3				
9/27/2017								5.4	
9/28/2017						6.7	4.1		6.2
2/13/2018	2.1	4.1	4.7	1.7	2.3				
2/15/2018						8	5.3	6.3	6.2
6/26/2018	2.4	4.1	4.5	2.2	2.6				
6/27/2018							4.2	4.5	5.9
6/28/2018						5.5 (J-X)			
12/18/2018	1.8	3.8	4.5	1.9	2.3			6.1	
12/19/2018							4.9 (J-X)		6.2 (J-X)
12/20/2018						8 (J-X)			
3/19/2019	2.45 (D)	4.2	4.5	2	2.6		5		
3/20/2019						6.6		6.2	6.6
10/15/2019	2.2	3.7	4.2	1.9	2.4				
10/16/2019						6.4		5.4	6.6
12/3/2019							4.8		
3/3/2020	1.9	3.6	3.9	1.9	2.9		3.8		
3/5/2020						5.8		4.8	5.8
9/15/2020	1.9	3.7	3.7	1.7	2.3				
9/16/2020							4.2	4.1	6
9/17/2020						6.1			
3/1/2021	1.8				2.1				
3/2/2021		3.7	3.8	1.7					
3/3/2021								3.9	
3/4/2021						5.6	4.6		5.8
9/21/2021		3.2	3.2						
9/22/2021	1.7			1.5	2.1		4.6	2.7	
9/23/2021						6			6.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	3.1		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016		7.8 (D)	
11/18/2016	3.95 (D)		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		7.1	
2/23/2017	3.2		2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	4		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	4.6		1.9
2/13/2018			
2/15/2018	5.4	7.2	2.3
6/26/2018			
6/27/2018		7.1	
6/28/2018	9 (J-X)		2.1 (J-X)
12/18/2018		7.1	
12/19/2018	6.2 (J-X)		1.9 (J-X)
12/20/2018			
3/19/2019	7.1		
3/20/2019		6.9	2.3
10/15/2019			
10/16/2019		7.3	2.3
12/3/2019	7.7		
3/3/2020			
3/5/2020	7.6	6.4	1.8
9/15/2020			
9/16/2020	7.9	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	8.1	6.4	1.9
3/4/2021			
9/21/2021			
9/22/2021	7.1	5.6	
9/23/2021			1.9

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.66	0.18 (J)	0.34	0.22 (J)
9/8/2016									
11/15/2016		0.13 (J)			0.06 (J)				
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)					
11/17/2016								0.14 (J)	0.12 (J)
11/18/2016							0.03 (J)		
11/21/2016						0.9 (D)			
2/20/2017		0.08 (J)	0.06 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)					
2/22/2017								0.09 (J)	0.11 (J)
2/23/2017						0.75	0.07 (J)		
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)		0.06 (J)				
6/13/2017				0.04 (J)					
6/14/2017									
6/15/2017						0.77	0.01 (J)	0.03 (J)	0.05 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.1	<0.1	<0.1				
9/27/2017									
9/28/2017						0.8	<0.1	<0.1	0.05 (J)
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1				
2/15/2018						0.82	<0.1	<0.1	<0.1
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.041 (J)				
6/27/2018								0.22 (J)	0.093 (J)
6/28/2018						1.5 (J+X)	0.51 (J+X)		
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1				
12/19/2018							<0.1	0.11 (J)	0.16 (J)
12/20/2018						0.68			
3/19/2019	0.0655 (JD)	0.06 (J)	<0.1	0.037 (J)	0.03 (J)		<0.1		0.1 (J)
3/20/2019						0.95		0.088 (J)	
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1				
8/28/2019							<0.1	0.056 (J)	0.085 (J)
8/29/2019						0.9			
10/15/2019	<0.1	0.045 (J)	<0.1	<0.1	<0.1				
10/16/2019						0.61		0.08 (J)	
12/3/2019							0.15 (J)		0.2 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.1	0.05 (J)	0.09 (J)				0.093 (J)
3/5/2020						0.92	<0.1	0.067 (J)	
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
8/19/2020						0.95	0.051 (J)	0.06 (J)	0.1
9/15/2020	<0.1	0.051 (J)	<0.1	<0.1	<0.1				
9/16/2020							<0.1	0.062 (J)	0.1
9/17/2020						0.68			
3/1/2021	<0.1				<0.1				
3/2/2021		<0.1	<0.1	<0.1					
3/3/2021							<0.1		
3/4/2021						0.83		0.076 (J)	0.096 (J)
9/21/2021		0.056 (J)	<0.1						
9/22/2021	<0.1			<0.1	<0.1		0.054 (J)		0.1
9/23/2021						0.85		0.073 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.12 (J)	0.06 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.1
2/13/2018			
2/15/2018	0.42	<0.1	<0.1
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.1
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019	0.11 (J)	0.057 (J)	<0.1
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.1
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.1

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-36S	BRGWC-35S	BRGWC-33S	BRGWC-17S
8/31/2016	7.16	6.59	6.53	6.2					
9/1/2016					6.49				
9/7/2016						5.59	6.1	4.92	6.36
9/8/2016									
9/23/2016									
11/15/2016		6.67			6.59				
11/16/2016	6.96		6.4	6.12					
11/17/2016							6.04	4.82	6.28
11/18/2016						5.51			
11/21/2016									
2/20/2017		6.65	6.44		6.61				
2/21/2017	7.15			6.24					
2/22/2017							6.08	4.86	6.4
2/23/2017						5.65			
6/12/2017	7.31	6.64	6.4						
6/13/2017				6.19					
6/14/2017								4.86	
9/26/2017	7.02	6.58	6.31	6.15	6.47				
9/27/2017								4.78	
9/28/2017						5.62	6.03		6.35
2/13/2018	7.44	6.72	6.62	6.18	6.54				
2/15/2018						5.66	6.02	4.84	6.35
6/26/2018	6.93	6.43	6.29	6.05	6.23				
6/27/2018							6.01	4.73	6.35
6/28/2018						5.57			
12/18/2018	6.76	6.7	6.57	5.92	6.71			4.84	
12/19/2018						5.76	6.22		6.56
12/20/2018									
3/19/2019	6.87	6.63	6.45	6.18	6.18	5.72			6.43
3/20/2019							6.06	4.77	
8/27/2019	6.79	6.49	6.37	6.09	6.35			4.78	
8/28/2019						5.52	5.95	5.52	6.25
8/29/2019									
10/15/2019	6.57	7.01	6.77	6.06	6.36				
10/16/2019							6.03	4.78	
10/17/2019						5.61			6.3
3/3/2020	6.71	6.49	6.29	6.1	6.59				6.34
3/5/2020						5.39	6.04	4.82	
8/18/2020	6.59	6.41	6.29	6.06	6.33				
8/19/2020						5.53	5.97	4.78	6.24
9/15/2020	6.64	6.25	6.27	6.01	6.43				
9/16/2020						5.58	5.96	4.78	6.26
9/17/2020									
3/1/2021	6.66				6.7				
3/2/2021		6.42	6.47	6.2					
3/3/2021						5.86		4.83	
3/4/2021							6.14		6.45
9/21/2021		6.36	6.32						
9/22/2021	6.78			6.06	6.48	5.53		4.81	6.22
9/23/2021							6.08		

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-38S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.43		
9/8/2016		5.84	
9/23/2016	5.46		
11/15/2016			
11/16/2016			
11/17/2016		5.81	
11/18/2016			
11/21/2016	4.84		
2/20/2017			
2/21/2017			
2/22/2017		5.85	
2/23/2017	4.73		5.57
6/12/2017			
6/13/2017			
6/14/2017		5.87	
9/26/2017			
9/27/2017		5.74	
9/28/2017	4.37		5.76
2/13/2018			
2/15/2018	4.3	5.93	5.95
6/26/2018			
6/27/2018		5.68	
6/28/2018	4.16		5.78
12/18/2018		5.97	
12/19/2018			6.07
12/20/2018	4.21		
3/19/2019			
3/20/2019	4.34	5.84	5.93
8/27/2019			
8/28/2019		5.8	5.8
8/29/2019	4.01		
10/15/2019			
10/16/2019	4.21	5.85	5.81
10/17/2019			
3/3/2020			
3/5/2020	4.01	5.89	5.53
8/18/2020			
8/19/2020	4.12	5.78	5.66
9/15/2020			
9/16/2020		5.81	5.84
9/17/2020	4.17		
3/1/2021			
3/2/2021			
3/3/2021		5.88	5.87
3/4/2021	4.19		
9/21/2021			
9/22/2021		5.93	
9/23/2021	4.05		5.85

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-35S
8/31/2016	7.5	0.81 (J)	2.7	0.38 (J)					
9/1/2016					0.6 (J)				
9/7/2016						440	97	260	260
9/8/2016									
11/15/2016		<1 (J)			0.68 (J)				
11/16/2016	6.6		3.4	<1 (J)					
11/17/2016							120 (D)	235 (D)	285 (D)
11/18/2016									
11/21/2016						490 (D)			
2/20/2017		1 (B-01)	3.9 (B-01)		0.98 (J)				
2/21/2017	6.1			1.5					
2/22/2017							120	210	270
2/23/2017						470			
4/17/2017									
5/15/2017									
6/12/2017	5	0.94 (J)	3.7		0.54 (J)				
6/13/2017				0.67 (J)					
6/14/2017								200	
6/15/2017						490	130		280
9/26/2017	5.4	0.92 (J)	4.1	0.62 (J)	0.53 (J)				
9/27/2017								200	
9/28/2017						470	120		240
2/13/2018	4.7 (J)	<1	6.6	<1	<1				
2/15/2018						432	109	197	266
6/26/2018	6.2	0.91 (J)	3.5	0.69 (J)	0.54 (J)				
6/27/2018							118	200	278
6/28/2018						453			
12/18/2018	5.9	0.68 (J)	4.3	0.72 (J)	0.39 (J)			222	
12/19/2018							125		287
12/20/2018						463			
3/19/2019	6 (D)	0.74 (J)	3	0.78 (J)	0.68 (J)		126		
3/20/2019						405		204	268
10/15/2019	5.2	0.68 (J)	3.8	0.47 (J)	0.48 (J)				
10/16/2019						432		226	277
12/3/2019							180		
3/3/2020	7.1	0.71 (J)	2.8	0.93 (J)	2.5		95.4		
3/5/2020						370		173	269
9/15/2020	5.9	<1	1.7	<1	<1				
9/16/2020							151	154	270
9/17/2020						356			
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	2.2	<1					
3/3/2021								133	
3/4/2021						325	122		251
9/21/2021		<1	2.3						
9/22/2021	5.2			<1	<1		123	94.6	
9/23/2021						318			258

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	300		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016		445 (D)	
11/18/2016	245 (D)		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		410	
2/23/2017	330		0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017		410	
6/15/2017	310		0.46 (J)
9/26/2017			
9/27/2017		360	
9/28/2017	290		0.49 (J)
2/13/2018			
2/15/2018	292	335	1.9 (o)
6/26/2018			
6/27/2018		296	
6/28/2018	284		0.24 (J)
12/18/2018		345	
12/19/2018	319		0.4 (J)
12/20/2018			
3/19/2019	307		
3/20/2019		329	<1 (X)
10/15/2019			
10/16/2019		325	0.29 (J)
12/3/2019	256		
3/3/2020			
3/5/2020	262	287	<1
9/15/2020			
9/16/2020	256	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	252	277	<1
3/4/2021			
9/21/2021			
9/22/2021	234	232	
9/23/2021			<1

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-35S
8/31/2016	151	154	138	88					
9/1/2016					299				
9/7/2016						750	331	382	486
9/8/2016									
11/15/2016		123			41				
11/16/2016	69		77	41					
11/17/2016							308	382	453
11/18/2016									
11/21/2016						795			
2/20/2017		158	170		133				
2/21/2017	68			<10					
2/22/2017							341	387	541
2/23/2017						733			
4/17/2017									
5/15/2017									
6/12/2017	161	142	132		61				
6/13/2017				53					
6/14/2017								316	
6/15/2017						812	333		548
9/26/2017	167	138	108	45	29				
9/27/2017								303	
9/28/2017						690	310		487
2/13/2018	165	150	141	63	61				
2/15/2018						722	292	332	500
6/26/2018	188	154	133	71	71				
6/27/2018								353 (X)	538 (X)
6/28/2018						704			347 (X)
12/18/2018	145 (X)	147	138 (X)	78 (X)	70 (X)			358	
12/19/2018									
12/20/2018						642		317	489
3/19/2019	146.5 (D)	146	130	68	72		303		
3/20/2019						615		338	501
10/15/2019	140	144	175	66	63				
10/16/2019						630		281	481
12/3/2019							378		
3/3/2020	155	130	<10	41	54		263		
3/5/2020						608		292	535
9/15/2020	116	116	100	69	79				
9/16/2020							316	88	474
9/17/2020						587			
3/1/2021	98				39				
3/2/2021		96	80	43					
3/3/2021								212	
3/4/2021						540	316		480
9/21/2021		104	108						
9/22/2021	129			66	62		323	190	
9/23/2021						528			511

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/28/2021 7:51 AM View: PLs Interwell Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	528		
9/8/2016		663	
11/15/2016			
11/16/2016			
11/17/2016		651	
11/18/2016	524		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		706	
2/23/2017	517		45
4/17/2017			53
5/15/2017			48
6/12/2017			
6/13/2017			
6/14/2017		643	
6/15/2017	566		63
9/26/2017			
9/27/2017		579	
9/28/2017	475		39
2/13/2018			
2/15/2018	513	612	54
6/26/2018			
6/27/2018		359 (X)	
6/28/2018	499		59 (X)
12/18/2018		535	
12/19/2018	521		68
12/20/2018			
3/19/2019	498		
3/20/2019		517	68 (X)
10/15/2019			
10/16/2019		473	49
12/3/2019	498		
3/3/2020			
3/5/2020	457	489	39
9/15/2020			
9/16/2020	463	392	31
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	442	422	33
3/4/2021			
9/21/2021			
9/22/2021	457	406	
9/23/2021			49

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	BRGWC-35S	0.1871	71	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.177	51	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.934	-59	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.931	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2607	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.111	64	48	Yes	14	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1251	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1644	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-21.01	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.99	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-33.47	-66	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-57.34	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.06	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-52.14	-77	-48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.002384	20	48	No	14	21.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	6	48	No	14	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	1	48	No	14	57.14	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	14	48	No	14	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-1	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	1	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1871	71	48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.03939	46	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.08072	-44	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.8266	46	48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0	1	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	-0.07521	-6	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4646	-20	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.177	51	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.591	42	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-33S	-2.641	-41	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.934	-59	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	2.011	36	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-0.2098	-10	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.931	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.06183	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	-0.02852	-22	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2053	-44	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06983	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	0	-12	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2607	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.04963	16	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.111	64	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-38S	0.1287	11	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-19	-58	No	16	43.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0	35	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0	44	58	No	16	68.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	-0.007283	-34	-58	No	16	31.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003585	41	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0.01742	21	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1251	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.02883	-43	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.02729	-28	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.0589	-55	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-6	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.009037	-29	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	-0.004873	-4	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	0.02208	10	43	No	13	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1644	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2487	-28	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	3	48	No	14	35.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.3219	-27	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.08437	-40	-48	No	14	35.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01226	-14	-48	No	14	21.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	2.57	24	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-21.01	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.99	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-35S	-2.219	-16	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-12.6	-42	-48	No	14	0	n/a	n/a	0.01	NP

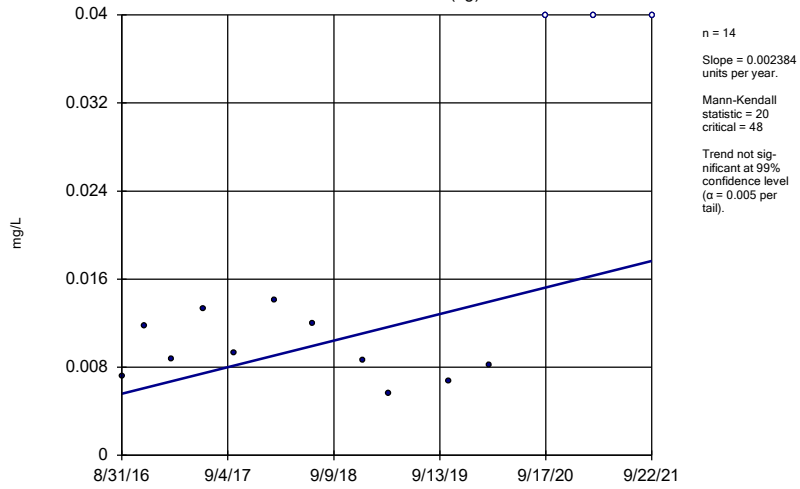
Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/28/2021, 8:01 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate (mg/L)	BRGWC-38S	-33.47	-66	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-4.927	-15	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	0.8314	7	48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-7.713	-21	-48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.968	-46	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.774	-10	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	-1.586	-6	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-57.34	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	-0.7228	-1	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.06	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-52.14	-77	-48	Yes	14	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

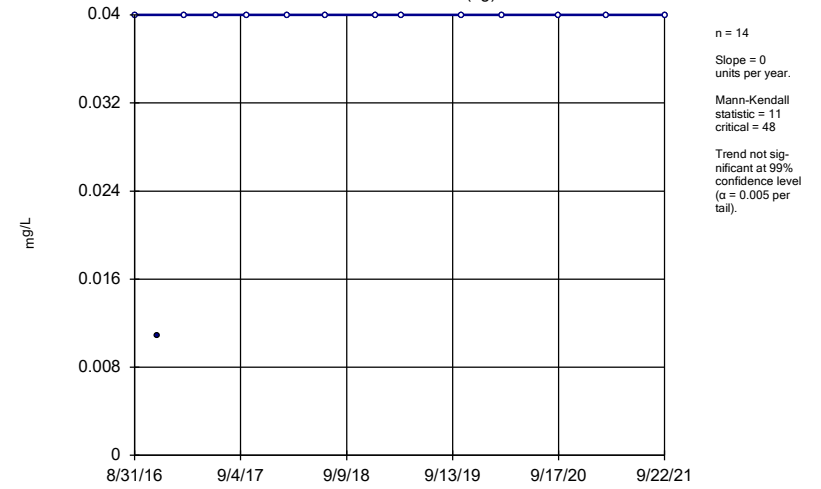
BRGWA-2I (bg)



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

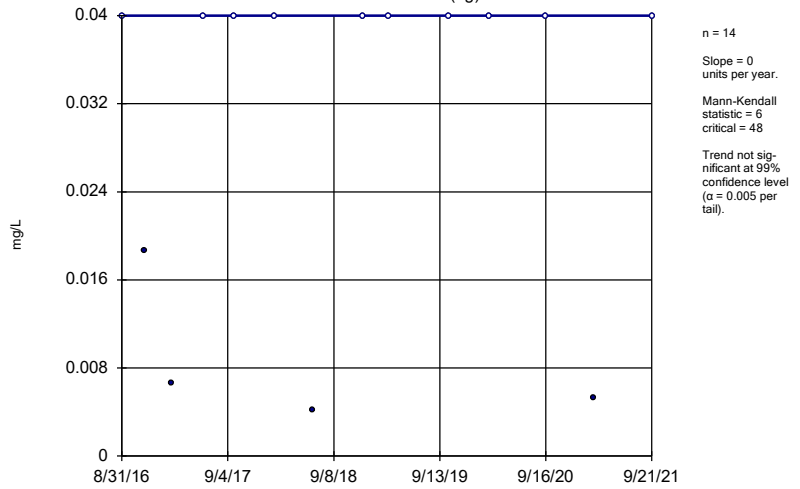
BRGWA-2S (bg)



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

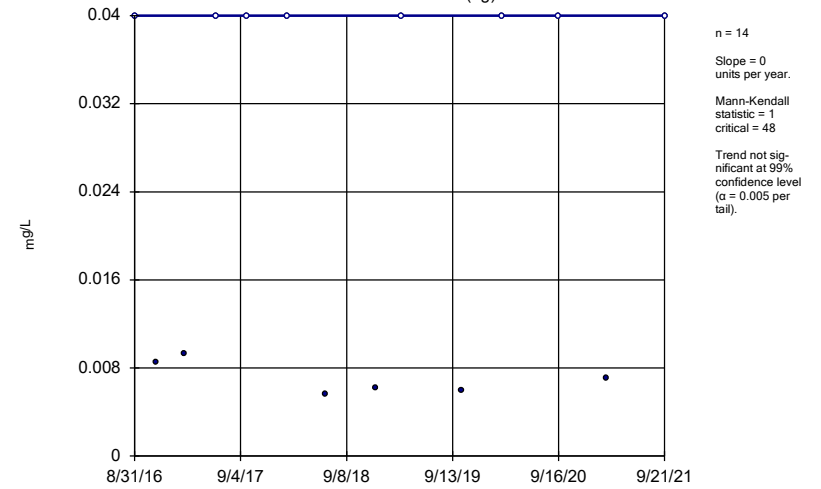
BRGWA-5I (bg)



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

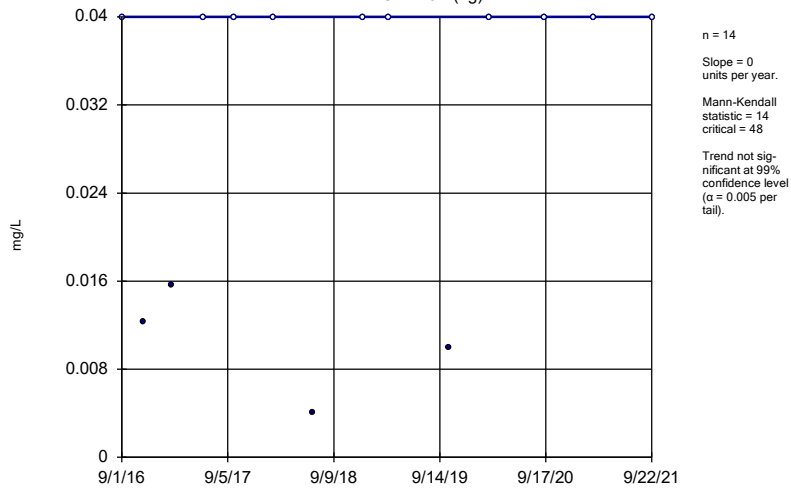
BRGWA-5S (bg)



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

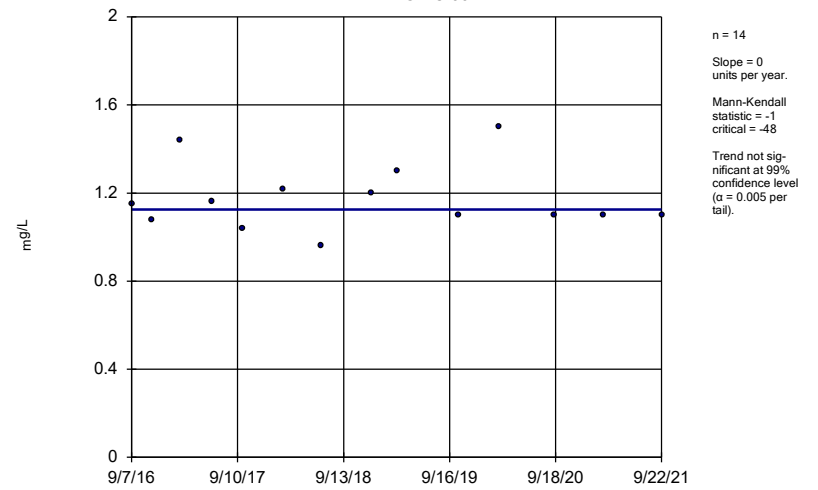
BRGWA-6S (bg)



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

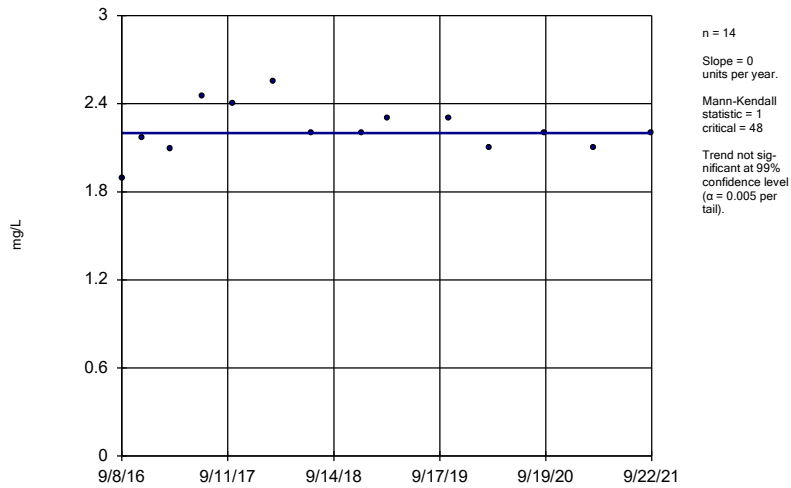
BRGWC-33S



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

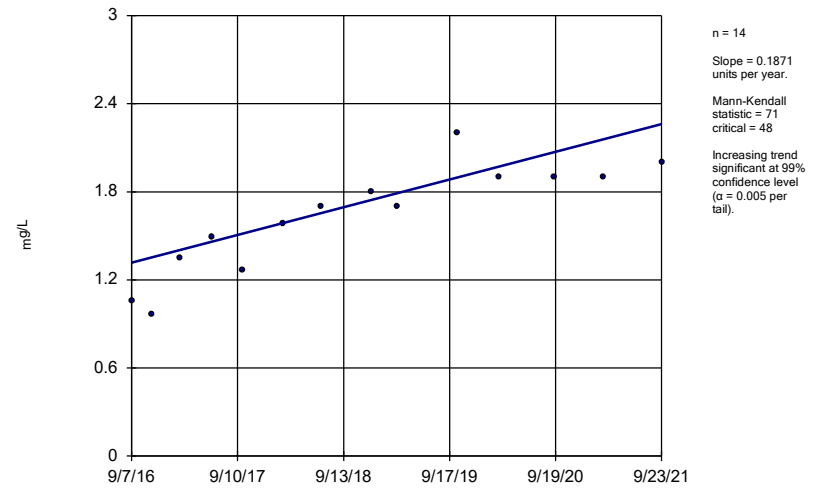
BRGWC-34S



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

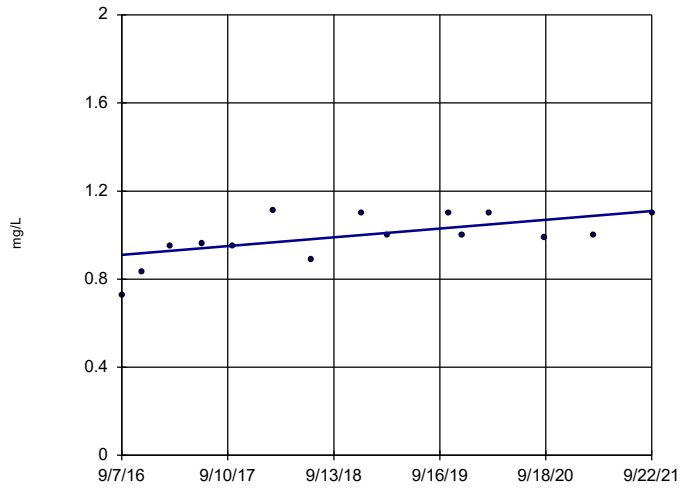
Sen's Slope Estimator

BRGWC-35S



Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

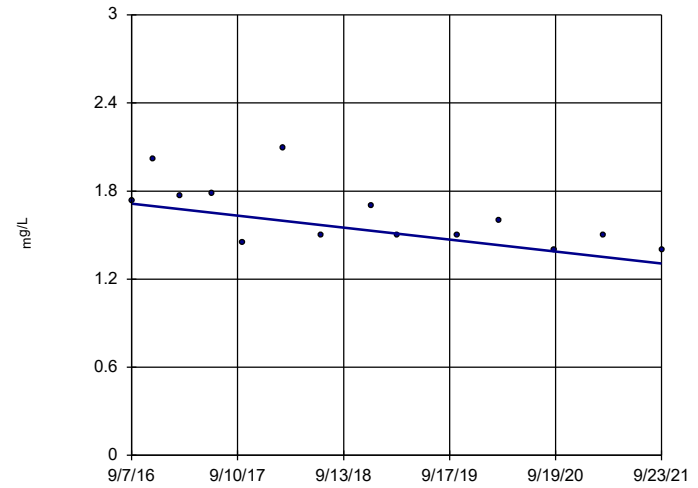
Sen's Slope Estimator
BRGWC-36S



n = 15
Slope = 0.03939 units per year.
Mann-Kendall statistic = 46 critical = 53
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

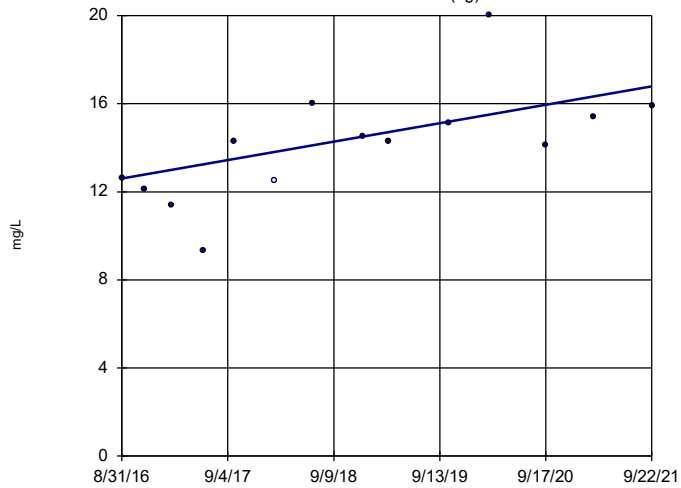
Sen's Slope Estimator
BRGWC-38S



n = 14
Slope = -0.08072 units per year.
Mann-Kendall statistic = -44 critical = -48
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

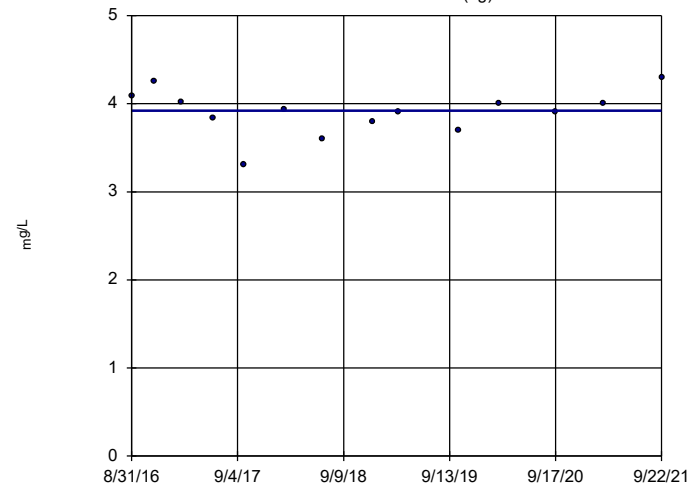
Sen's Slope Estimator
BRGWA-2I (bg)



n = 14
Slope = 0.8266 units per year.
Mann-Kendall statistic = 46 critical = 48
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2S (bg)

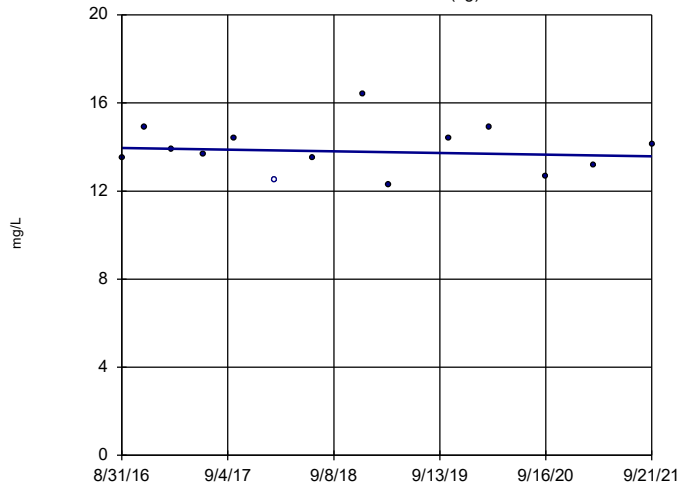


n = 14
Slope = 0 units per year.
Mann-Kendall statistic = 1 critical = 48
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

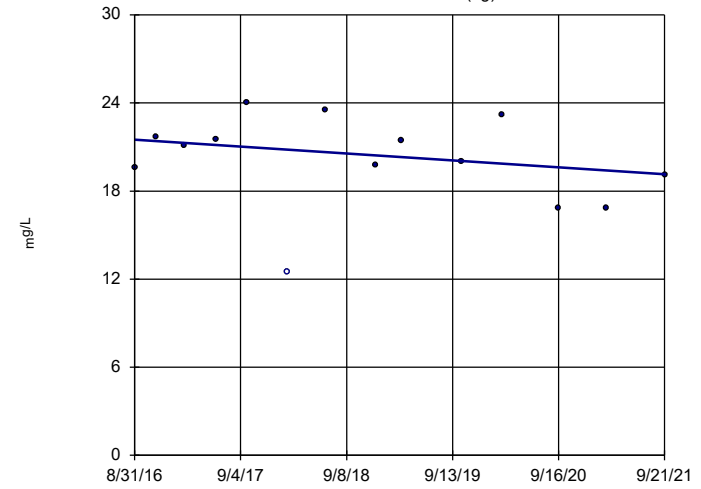


n = 14
Slope = -0.07521
units per year.
Mann-Kendall
statistic = -6
critical = -48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

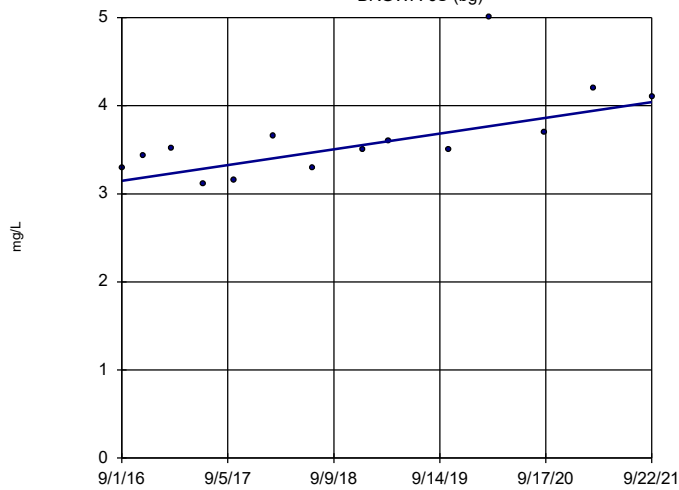


n = 14
Slope = -0.4646
units per year.
Mann-Kendall
statistic = -20
critical = -48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

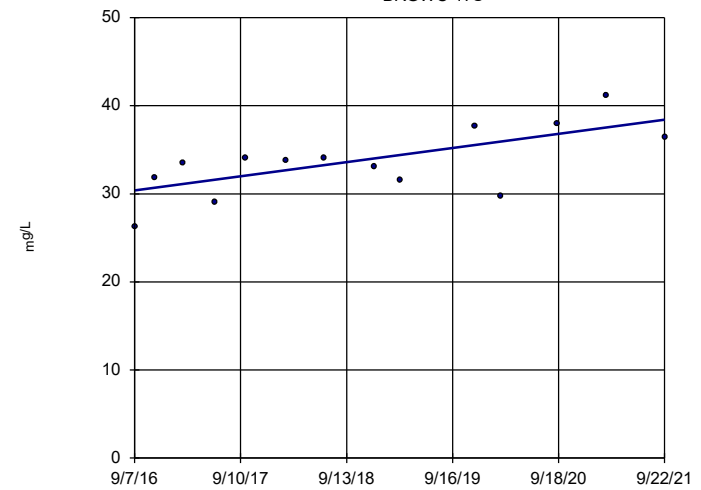


n = 14
Slope = 0.177
units per year.
Mann-Kendall
statistic = 51
critical = 48
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

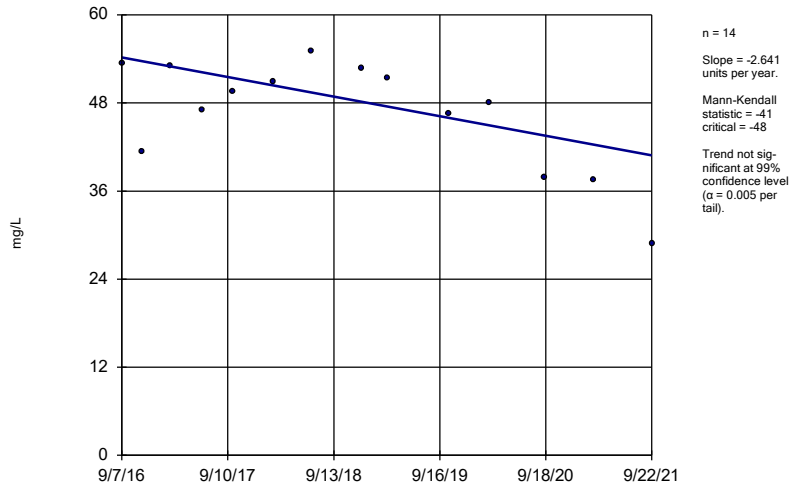
BRGWC-17S



n = 14
Slope = 1.591
units per year.
Mann-Kendall
statistic = 42
critical = 48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

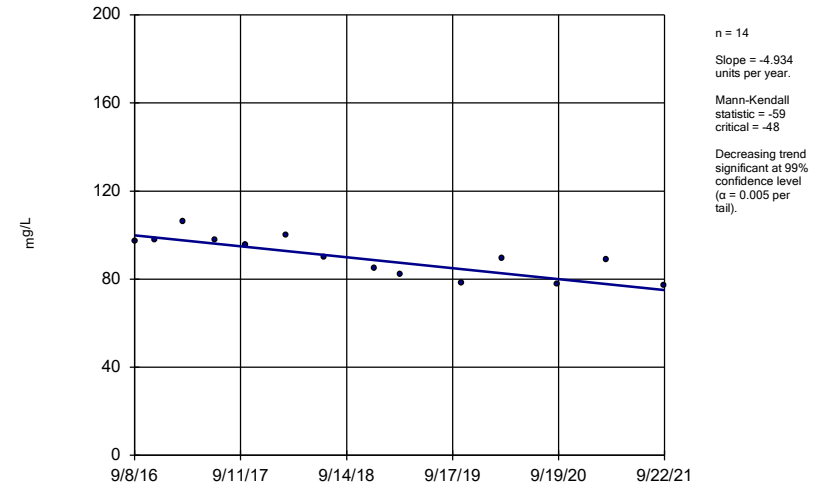
Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-33S



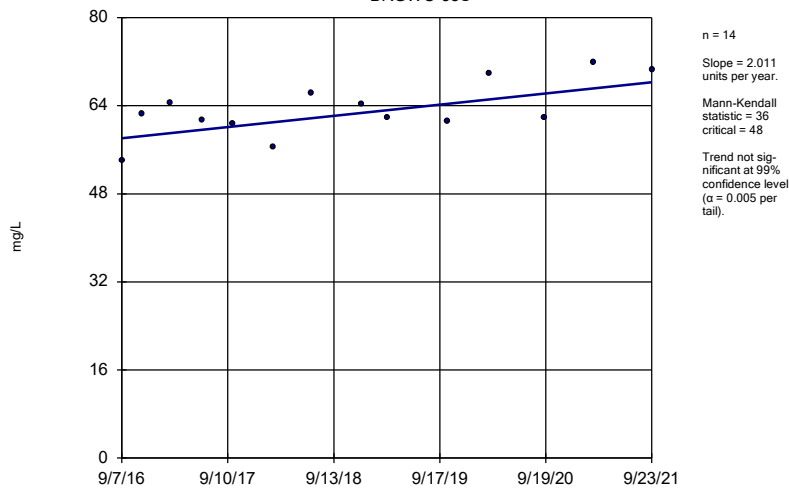
Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-34S



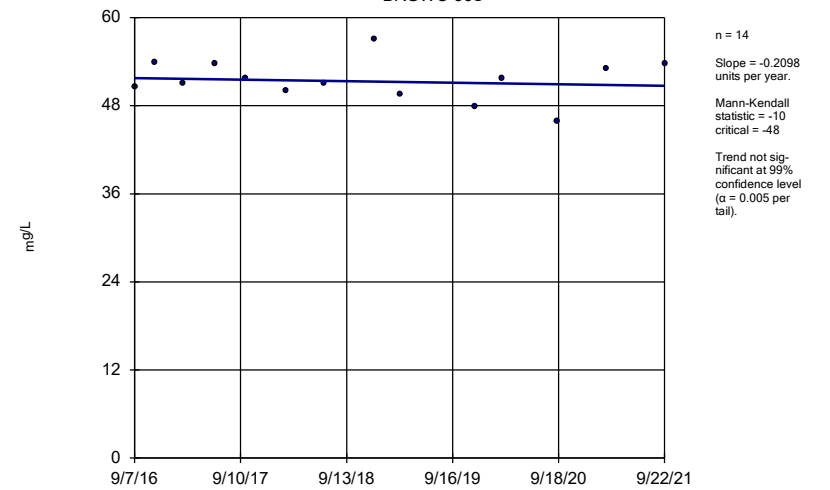
Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-35S



Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

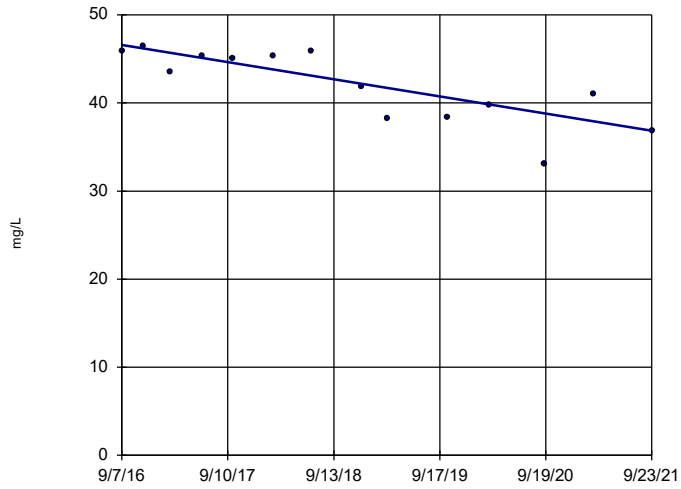
Sen's Slope Estimator
BRGWC-36S



Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

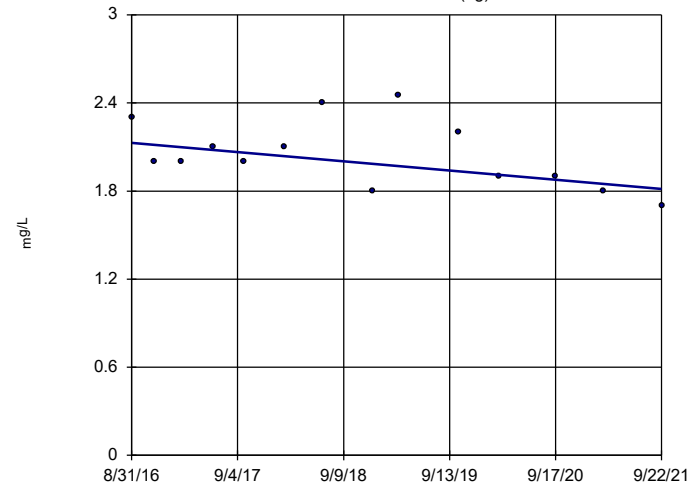


n = 14
 Slope = -1.931 units per year.
 Mann-Kendall statistic = -55
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

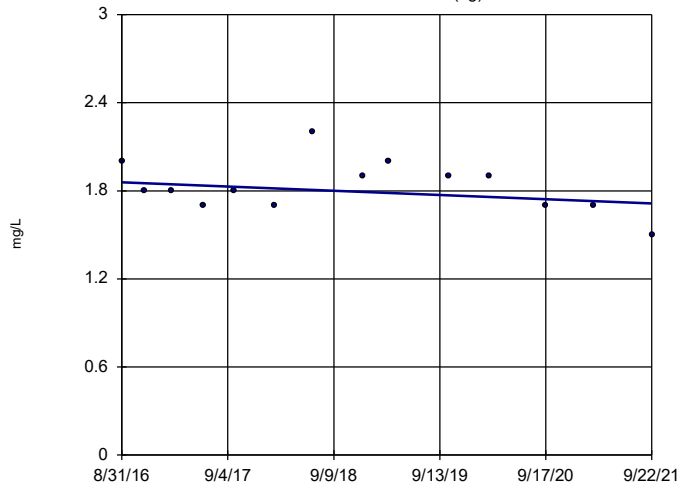


n = 14
 Slope = -0.06183 units per year.
 Mann-Kendall statistic = -31
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

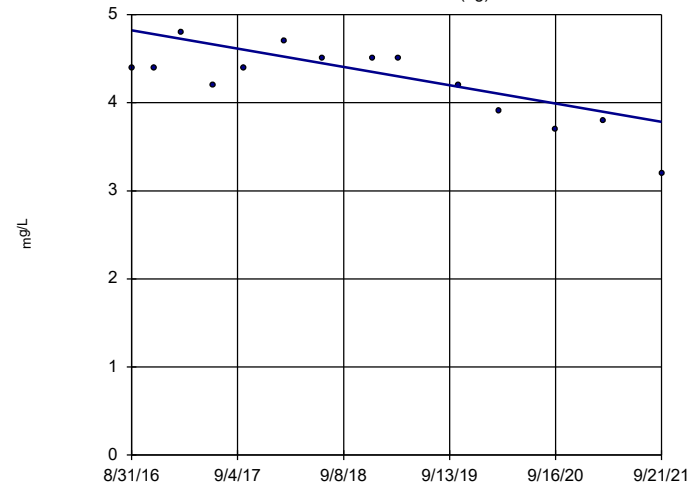


n = 14
 Slope = -0.02852 units per year.
 Mann-Kendall statistic = -22
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

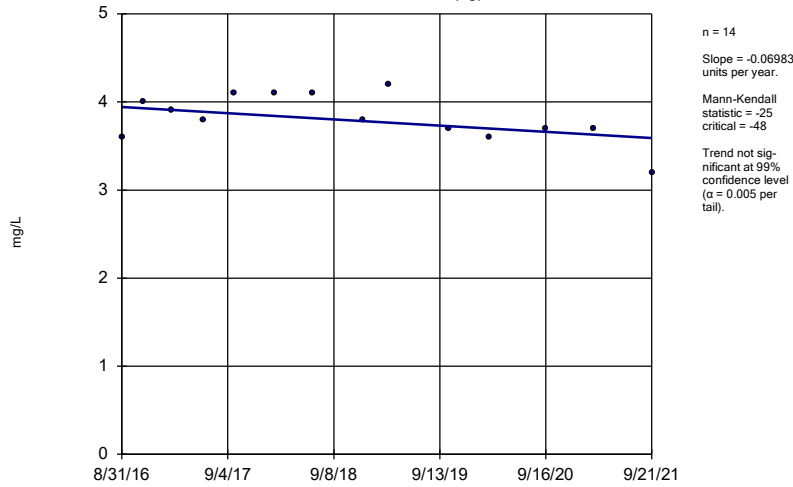
BRGWA-5I (bg)



n = 14
 Slope = -0.2053 units per year.
 Mann-Kendall statistic = -44
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

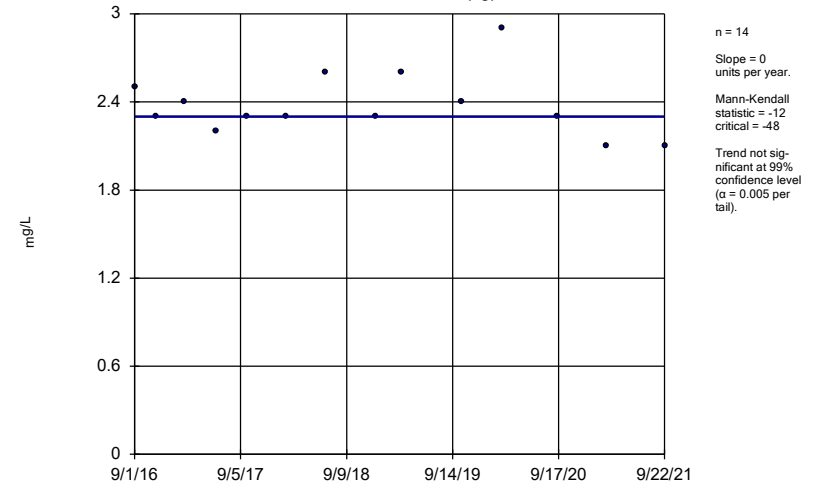
Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWA-5S (bg)



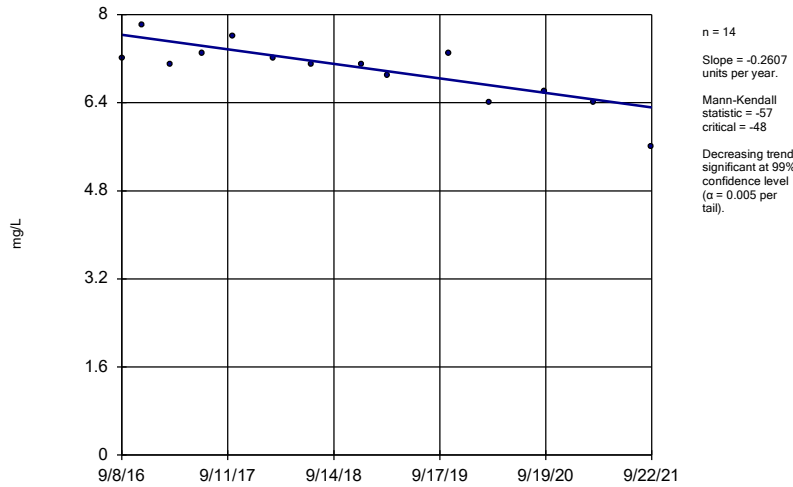
Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWA-6S (bg)



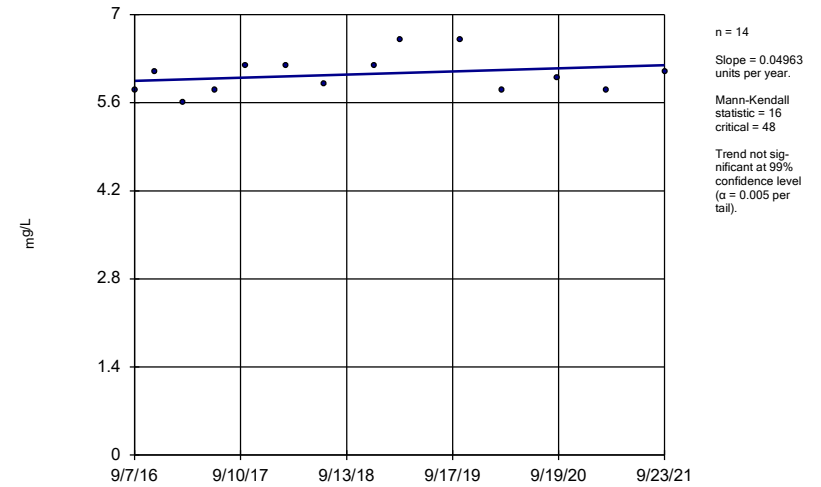
Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-34S



Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

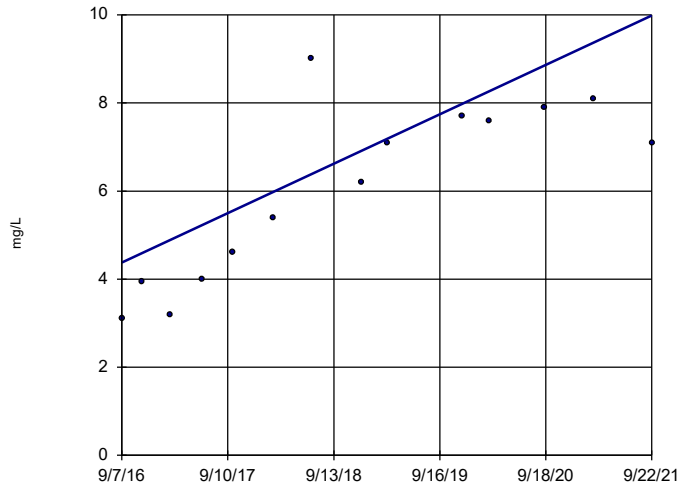
Sen's Slope Estimator BRGWC-35S



Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-36S

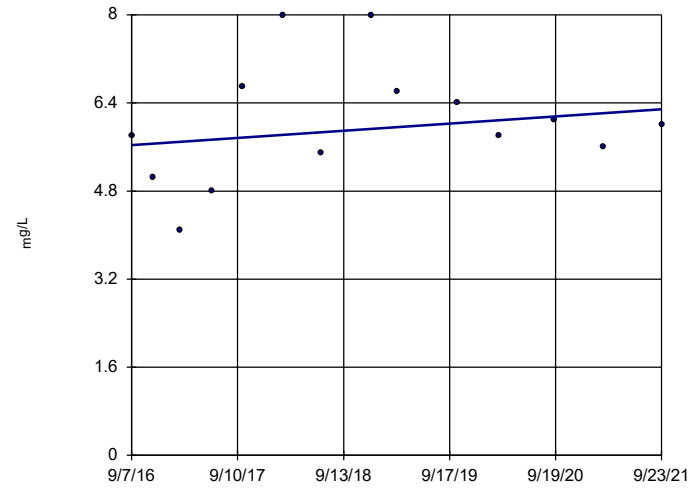


n = 14
 Slope = 1.111 units per year.
 Mann-Kendall statistic = 64
 critical = 48
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

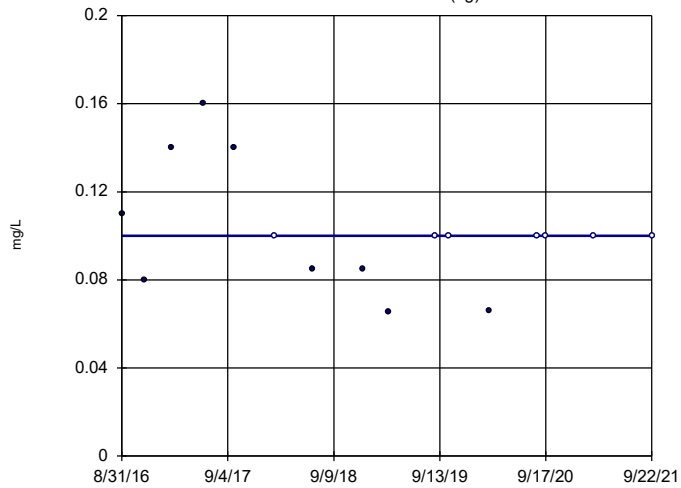


n = 14
 Slope = 0.1287 units per year.
 Mann-Kendall statistic = 11
 critical = 48
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

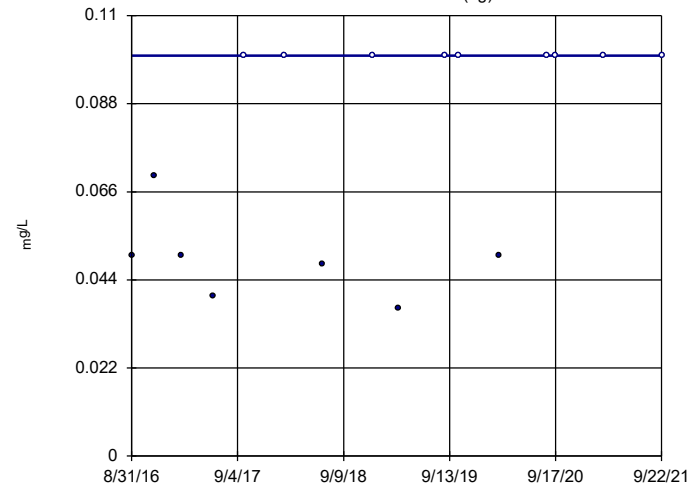


n = 16
 Slope = 0 units per year.
 Mann-Kendall statistic = -19
 critical = -58
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

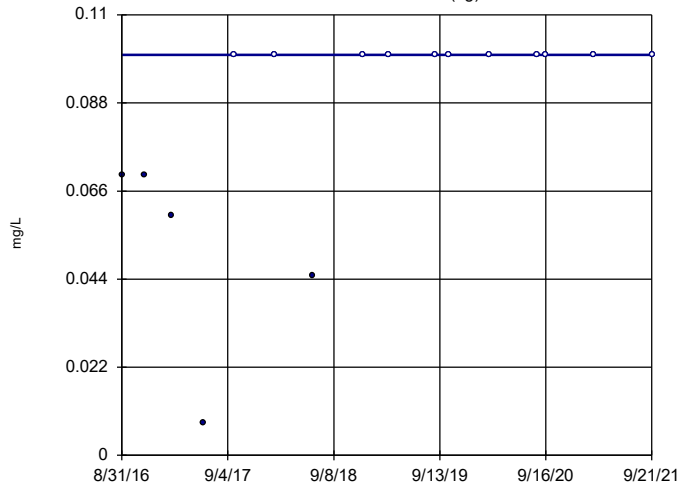


n = 16
 Slope = 0 units per year.
 Mann-Kendall statistic = 35
 critical = 58
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

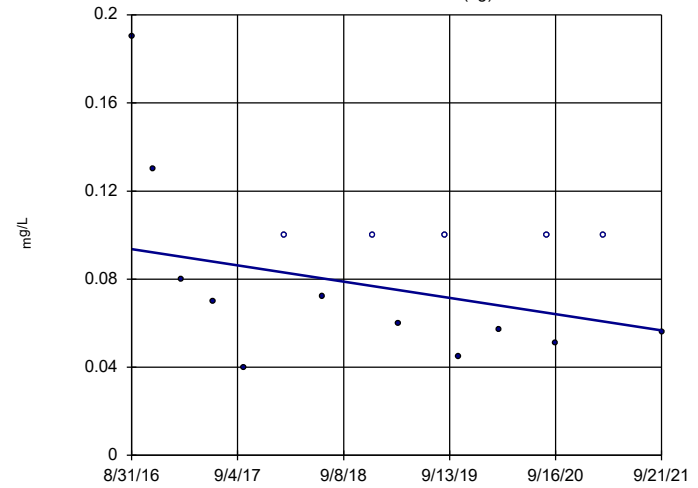


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

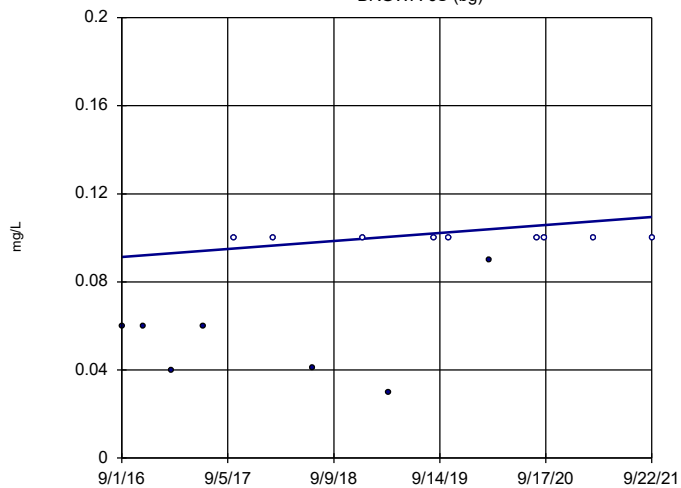


n = 16
 Slope = -0.007283
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

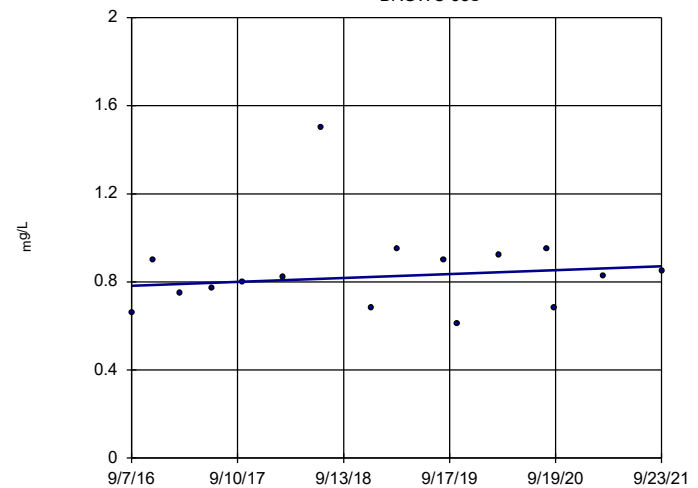


n = 16
 Slope = 0.003585
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

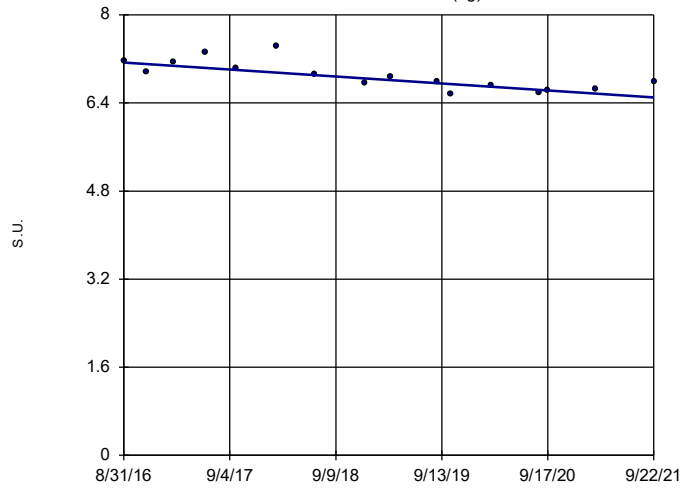


n = 16
 Slope = 0.01742
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/28/2021 7:58 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

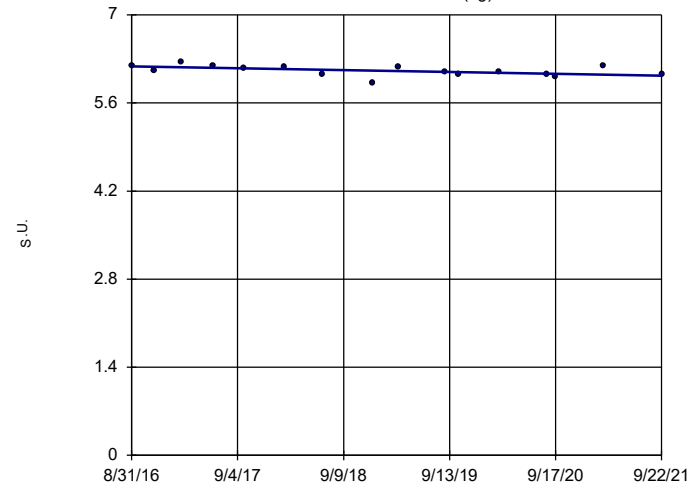


n = 16
 Slope = -0.1251
 units per year.
 Mann-Kendall
 statistic = -70
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

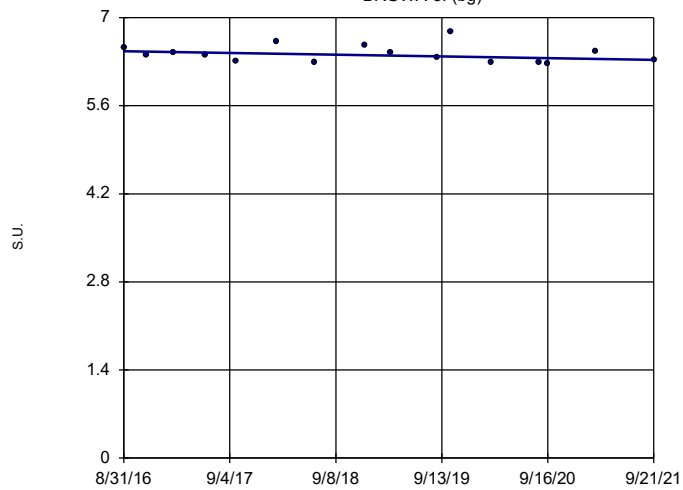


n = 16
 Slope = -0.02883
 units per year.
 Mann-Kendall
 statistic = -43
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

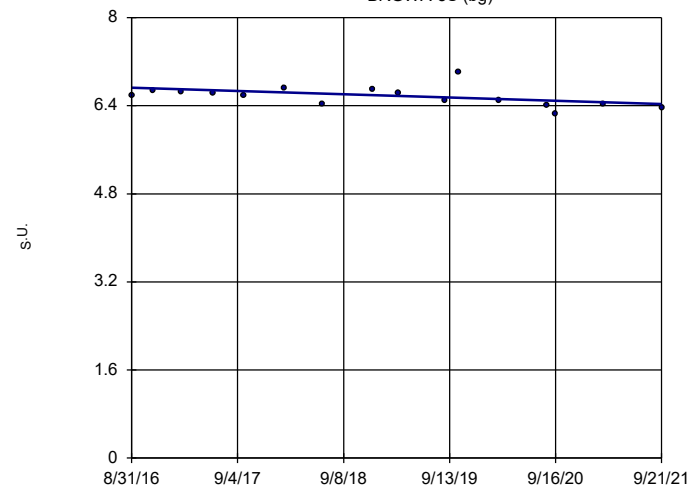


n = 16
 Slope = -0.02729
 units per year.
 Mann-Kendall
 statistic = -28
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

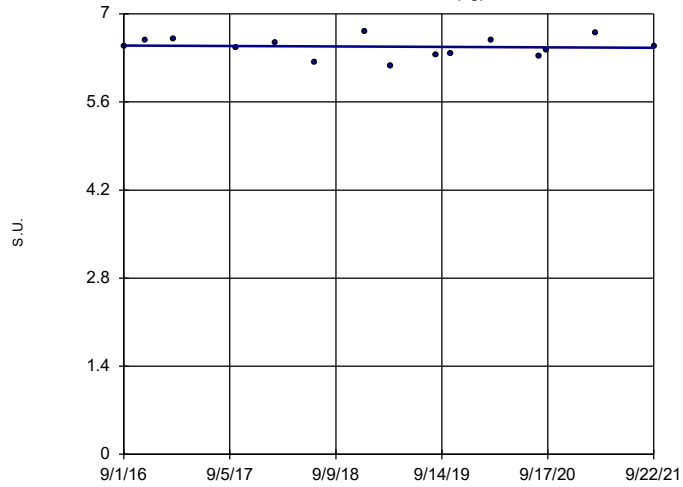


n = 16
 Slope = -0.0589
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

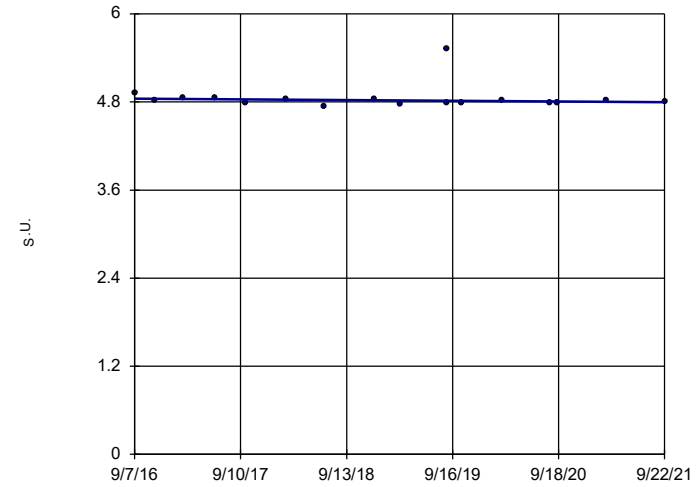
BRGWA-6S (bg)



Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

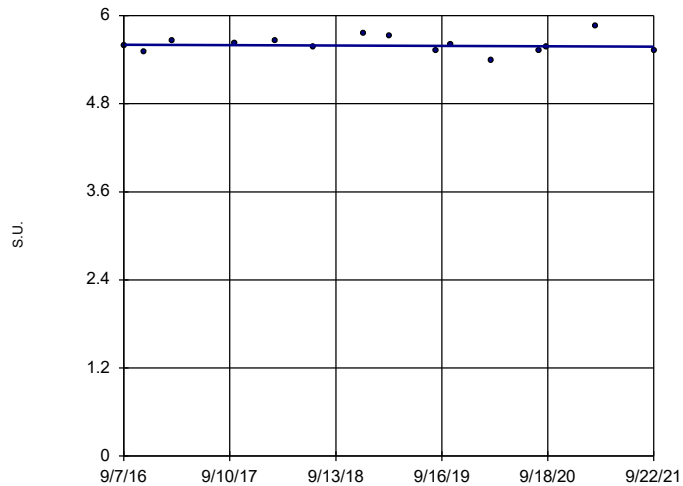
BRGWC-33S



Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

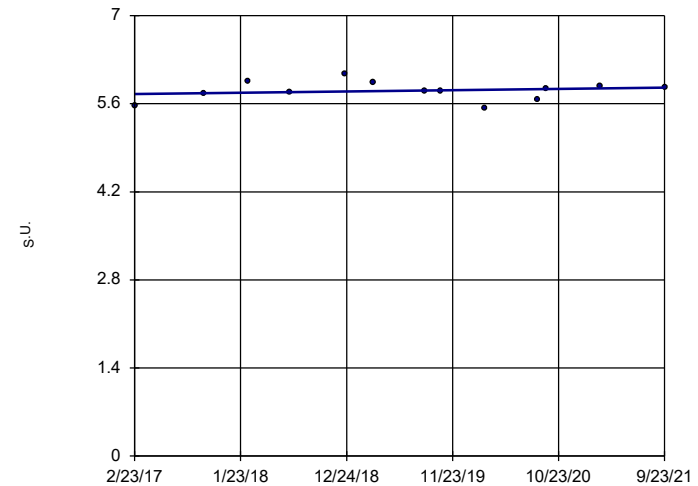
BRGWC-36S



Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

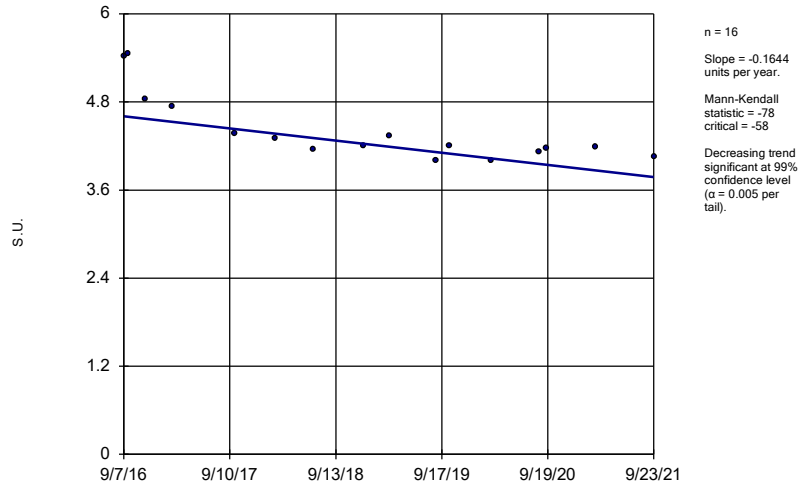
Sen's Slope Estimator

BRGWC-37S



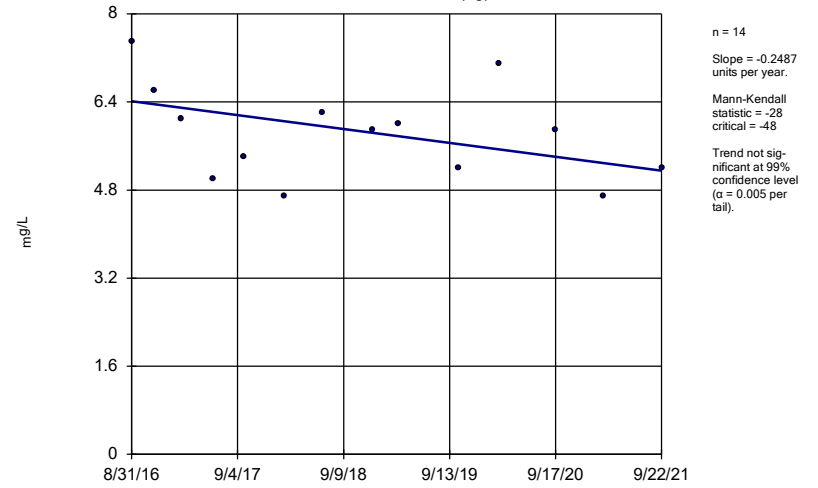
Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-38S



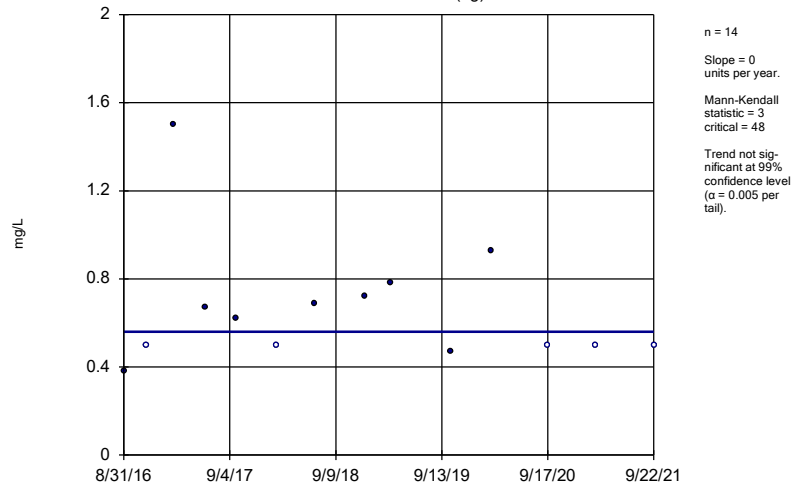
Constituent: pH, Field Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2I (bg)



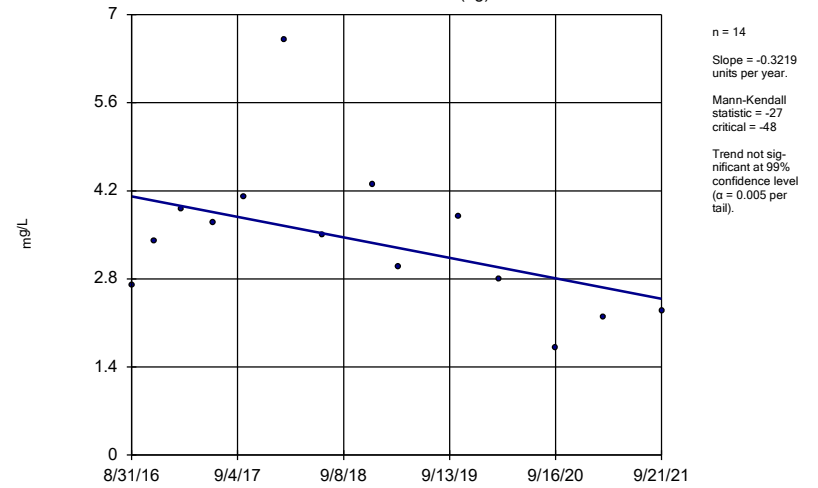
Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2S (bg)



Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

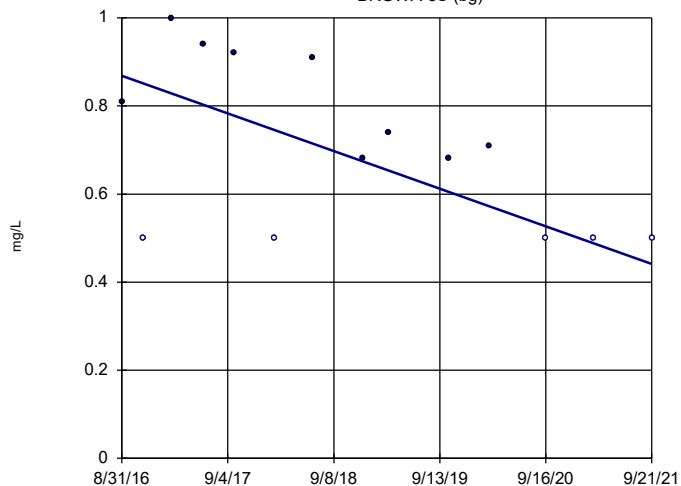
Sen's Slope Estimator
BRGWA-5I (bg)



Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

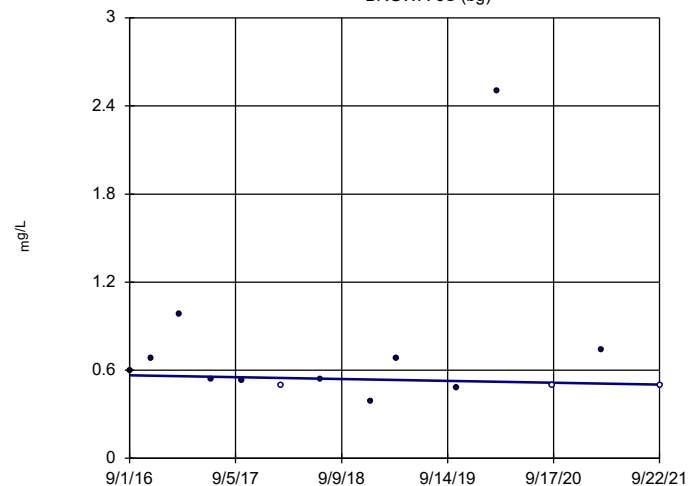


n = 14
 Slope = -0.08437
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

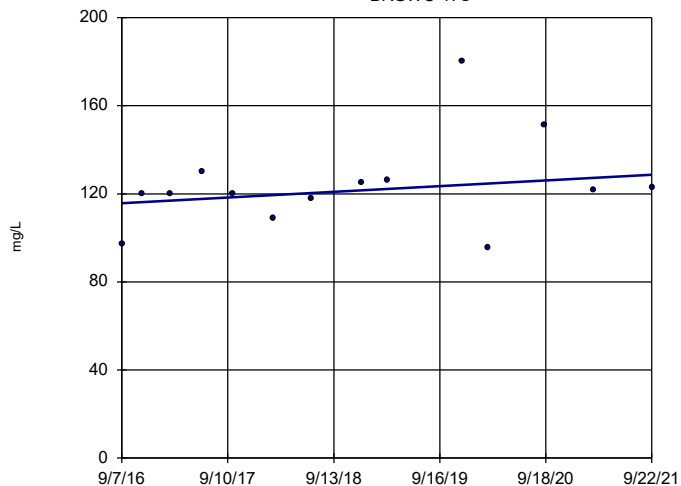


n = 14
 Slope = -0.01226
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-17S

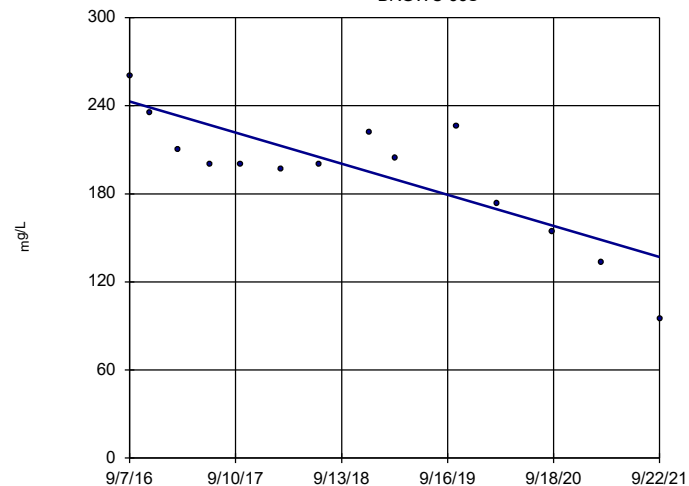


n = 14
 Slope = 2.57
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-33S

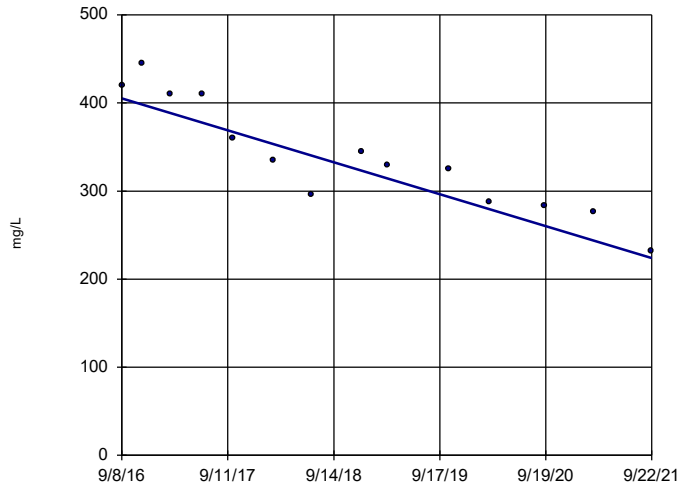


n = 14
 Slope = -21.01
 units per year.
 Mann-Kendall
 statistic = -54
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-34S

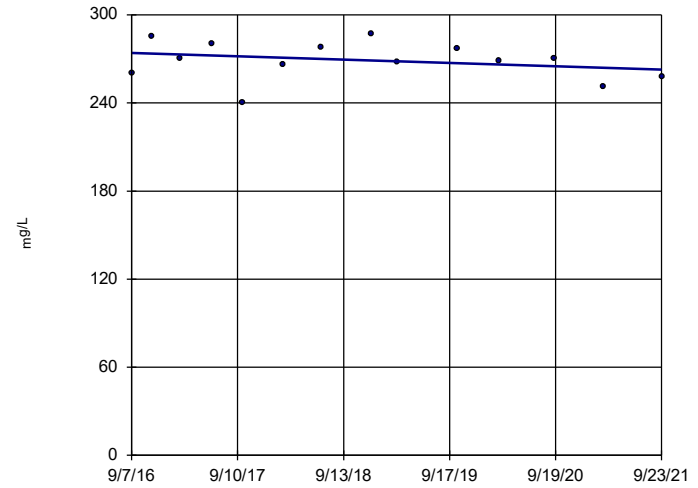


n = 14
 Slope = -35.99 units per year.
 Mann-Kendall statistic = -80
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-35S

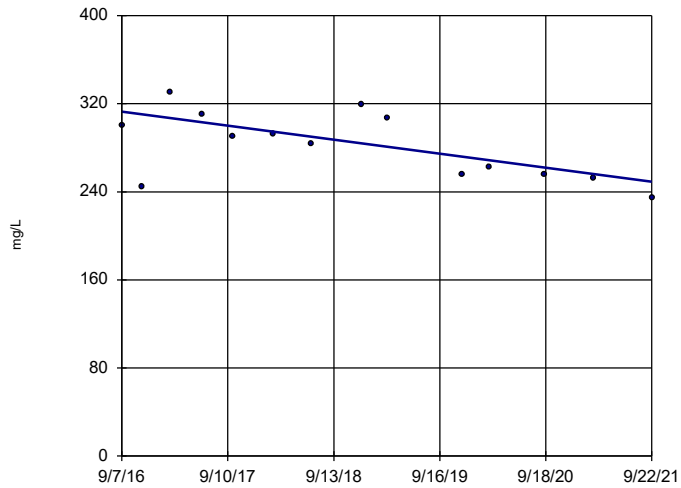


n = 14
 Slope = -2.219 units per year.
 Mann-Kendall statistic = -16
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-36S

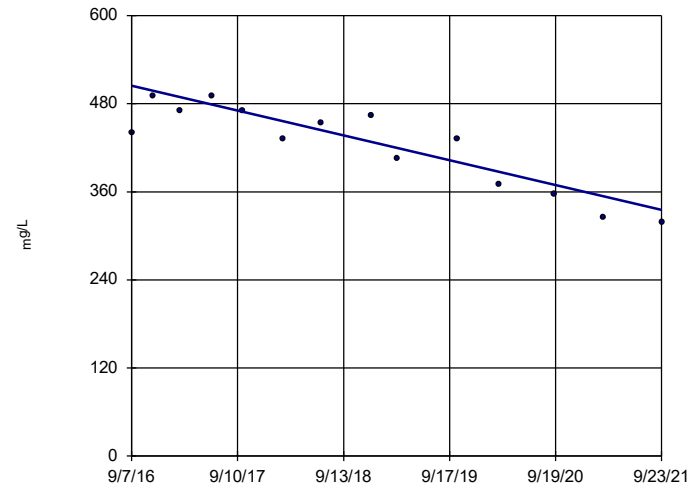


n = 14
 Slope = -12.6 units per year.
 Mann-Kendall statistic = -42
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

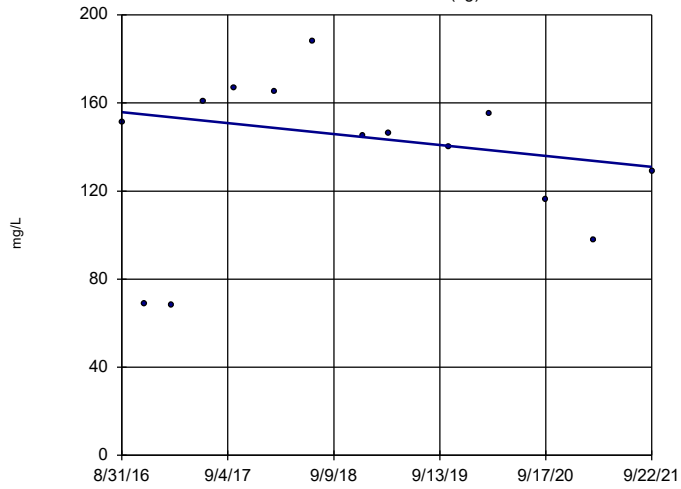


n = 14
 Slope = -33.47 units per year.
 Mann-Kendall statistic = -66
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLs
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)



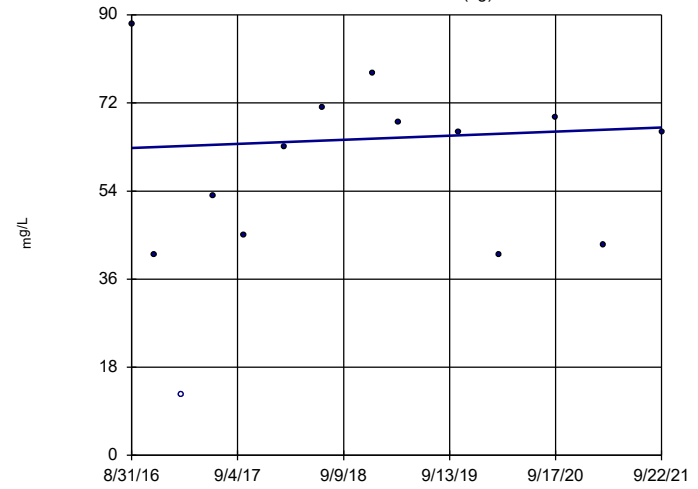
n = 14
 Slope = -4.927
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



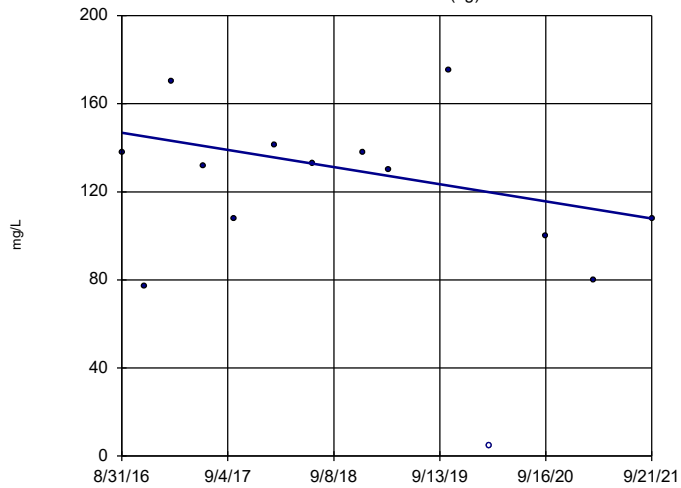
n = 14
 Slope = 0.8314
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)

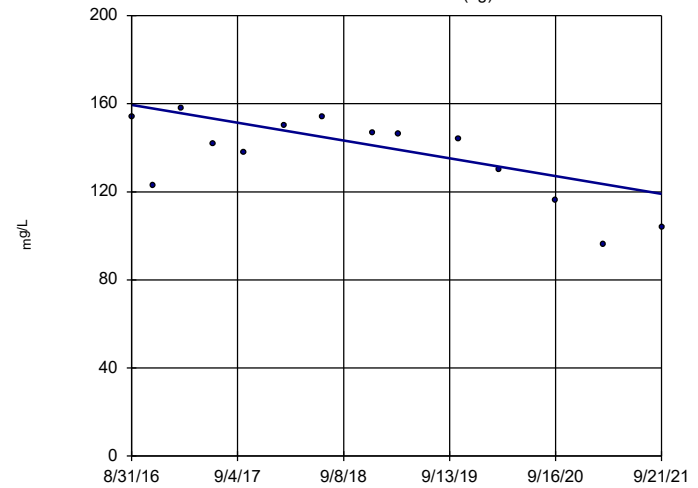


n = 14
 Slope = -7.713
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

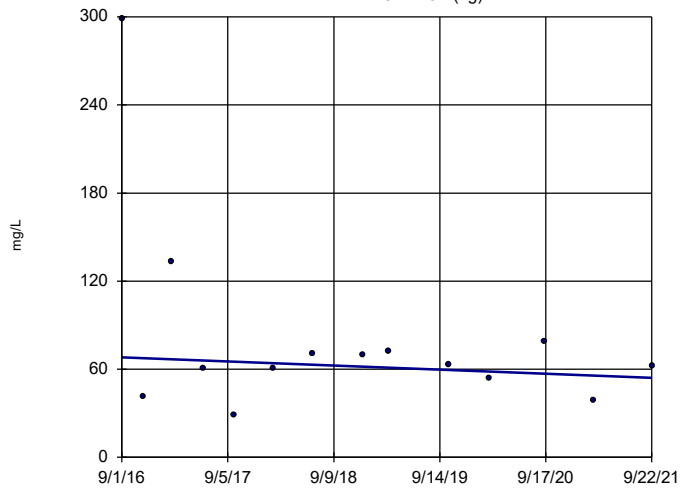
BRGWA-5S (bg)



n = 14
 Slope = -7.968
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

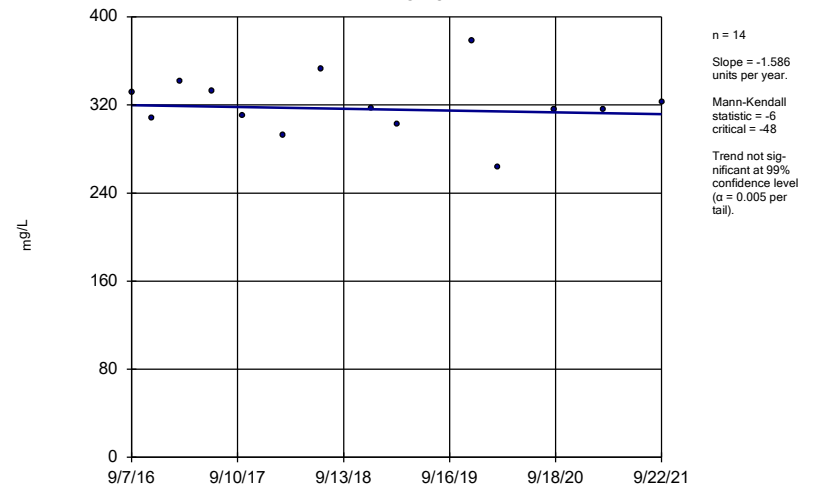
Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-6S (bg)



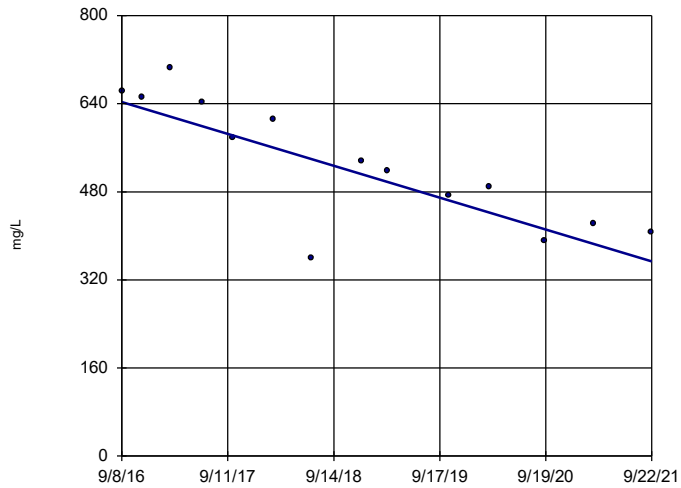
Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-17S



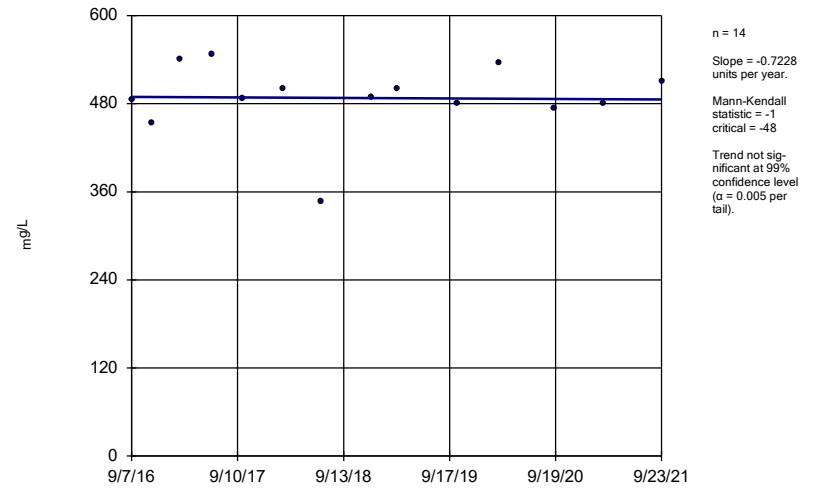
Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-34S



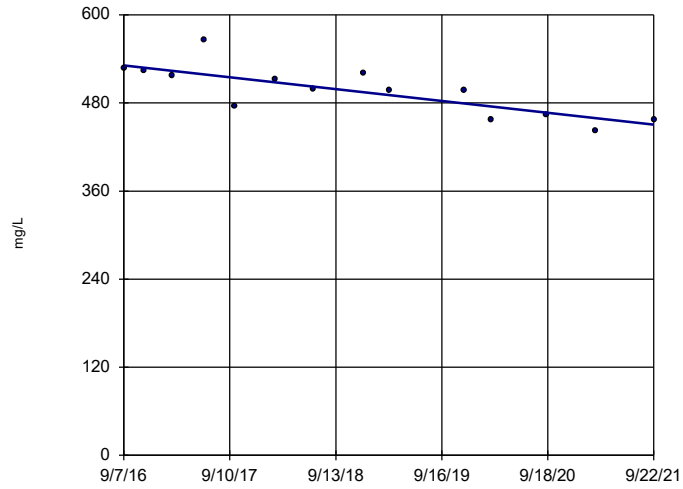
Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-35S



Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

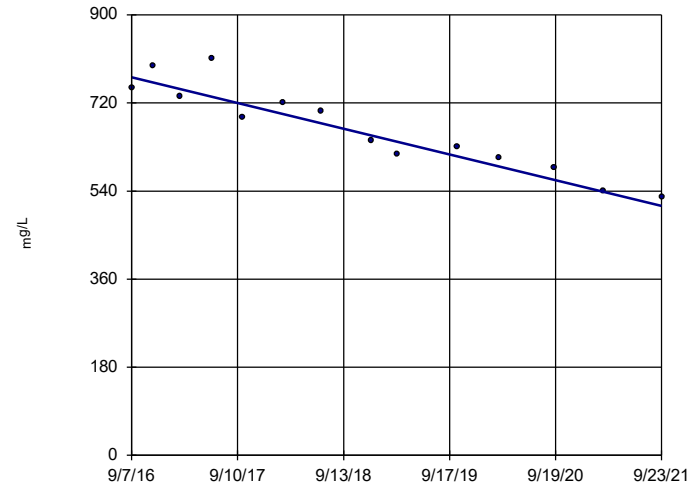
Sen's Slope Estimator BRGWC-36S



n = 14
Slope = -16.06
units per year.
Mann-Kendall
statistic = -63
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-38S



n = 14
Slope = -52.14
units per year.
Mann-Kendall
statistic = -77
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/28/2021 7:59 AM View: Trend Tests - Pond E PLS
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/27/2021, 3:56 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	75	n/a	n/a	90.67	n/a	n/a	0.02134	NP Inter(NDs)
Arsenic (mg/L)	0.005	75	n/a	n/a	77.33	n/a	n/a	0.02134	NP Inter(NDs)
Barium (mg/L)	0.063	75	n/a	n/a	0	n/a	n/a	0.02134	NP Inter(normality)
Beryllium (mg/L)	0.0005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Cadmium (mg/L)	0.0005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Chromium (mg/L)	0.016	75	n/a	n/a	16	n/a	n/a	0.02134	NP Inter(normality)
Cobalt (mg/L)	0.005	73	n/a	n/a	46.58	n/a	n/a	0.02365	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.397	75	0.6541	0.3768	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	80	n/a	n/a	51.25	n/a	n/a	0.01652	NP Inter(normality)
Lead (mg/L)	0.0013	75	n/a	n/a	77.33	n/a	n/a	0.02134	NP Inter(NDs)
Lithium (mg/L)	0.089	75	n/a	n/a	42.67	n/a	n/a	0.02134	NP Inter(normality)
Mercury (mg/L)	0.00021	65	n/a	n/a	84.62	n/a	n/a	0.03565	NP Inter(NDs)
Molybdenum (mg/L)	0.01	75	n/a	n/a	69.33	n/a	n/a	0.02134	NP Inter(normality)
Selenium (mg/L)	0.005	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)
Thallium (mg/L)	0.001	75	n/a	n/a	100	n/a	n/a	0.02134	NP Inter(NDs)

FIGURE G.

PLANT BRANCH POND E GWPS			
Constituent Name	MCL	Background Limit	GWPS
Antimony, Total (mg/L)	0.006	0.003	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.063	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.016	0.1
Cobalt, Total (mg/L)	n/a	0.005	0.005
Combined Radium, Total (pCi/L)	5	1.4	5
Fluoride, Total (mg/L)	4	0.19	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.089	0.089
Mercury, Total (mg/L)	0.002	0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	0.009533	0.00803	0.004	Yes	16	0.008781	0.001155	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05247	0.03819	0.005	Yes	16	0.04533	0.01097	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-38S	0.261	0.2111	0.005	Yes	15	0.2361	0.03678	0	None	No	0.01	Param.

Confidence Intervals - All Results

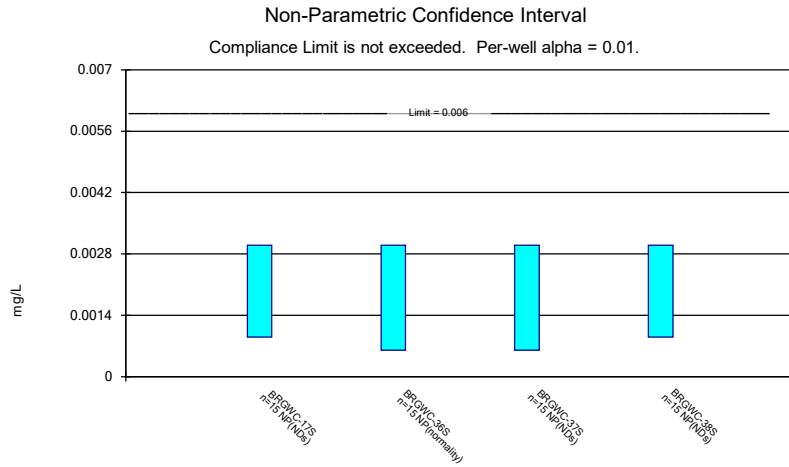
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	15	0.00286	0.0005422	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0006	0.006	No	15	0.002403	0.001059	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	15	0.002667	0.0008805	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	15	0.002707	0.000775	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.00073	0.01	No	15	0.004014	0.001802	73.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	BRGWC-33S	0.005	0.0006	0.01	No	16	0.004447	0.00151	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	15	0.004096	0.001872	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	15	0.004143	0.001777	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.00078	0.01	No	15	0.004107	0.001851	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003552	0.001712	0.01	No	15	0.002632	0.001358	6.667	None	No	0.01	Param.
Barium (mg/L)	BRGWC-17S	0.04272	0.03851	2	No	15	0.04061	0.003109	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.02247	0.02007	2	No	16	0.02127	0.00184	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-34S	0.03481	0.02498	2	No	15	0.02989	0.007253	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0701	0.036	2	No	15	0.04955	0.01952	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04452	0.03212	2	No	15	0.03894	0.01063	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02514	0.02294	2	No	15	0.02404	0.00162	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0338	0.015	2	No	15	0.02211	0.01015	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.0021	0.0014	0.004	No	16	0.001975	0.000856	6.25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-34S	0.0002	0.0001	0.004	No	15	0.0007847	0.001712	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00016	0.0001	0.004	No	15	0.000778	0.001714	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.005	0.000081	0.004	No	16	0.00132	0.002194	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-38S	0.009533	0.00803	0.004	Yes	16	0.008781	0.001155	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004567	0.0003146	0.005	No	16	0.0003856	0.0001092	6.25	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004931	0.0002202	0.005	No	15	0.0003707	0.0002201	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0005	0.0001	0.005	No	16	0.0004488	0.0001401	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0006164	0.0004902	0.005	No	15	0.0005533	0.00009309	6.667	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-17S	0.01271	0.009722	0.1	No	15	0.01129	0.002403	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.005	0.00049	0.1	No	16	0.004718	0.001127	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006645	0.004195	0.1	No	15	0.00542	0.001808	6.667	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00845	0.00723	0.1	No	15	0.00784	0.0009006	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.005	0.0013	0.1	No	15	0.002207	0.001461	20	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004183	0.003449	0.1	No	15	0.00372	0.0007885	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05247	0.03819	0.005	Yes	16	0.04533	0.01097	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-34S	0.004668	0.003235	0.005	No	15	0.004	0.001182	6.667	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.005	0.0008	0.005	No	15	0.003667	0.001999	66.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-38S	0.261	0.2111	0.005	Yes	15	0.2361	0.03678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.8147	0.3418	5	No	15	0.5783	0.3489	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.228	0.6374	5	No	15	0.9329	0.4361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.099	0.7584	5	No	15	0.9289	0.2516	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.028	0.4491	5	No	15	0.7385	0.4271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.211	0.636	5	No	15	0.9233	0.4239	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.7803	0.3765	5	No	15	0.5784	0.2979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.056	1.939	5	No	15	2.498	0.8238	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.16	0.085	4	No	16	0.1111	0.0461	6.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-33S	0.2372	0.1092	4	No	17	0.1818	0.114	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.15	0.07581	4	No	16	0.1241	0.08598	6.25	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.129	0.06211	4	No	16	0.1058	0.07576	12.5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.15	0.051	4	No	16	0.1159	0.1129	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-37S	0.1	0.05	4	No	16	0.07813	0.02796	43.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9503	0.724	4	No	16	0.8481	0.204	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.001	0.0001	0.0013	No	15	0.0008769	0.0003249	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.001	0.000063	0.0013	No	16	0.0003298	0.0004019	25	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.001	0.0003	0.0013	No	15	0.0008327	0.0003493	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.001	0.00012	0.0013	No	15	0.000768	0.0003988	73.33	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-36S	0.001	0.000047	0.0013	No	15	0.0009365	0.0002461	93.33	None	No	0.01	NP (NDs)

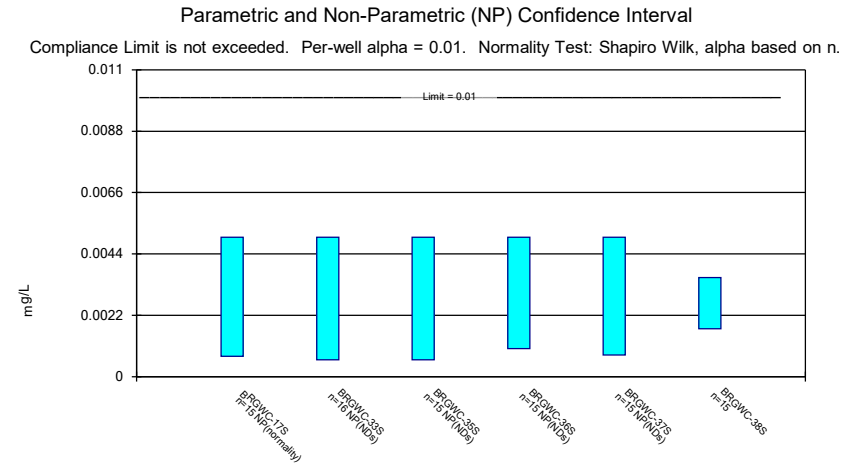
Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:14 AM

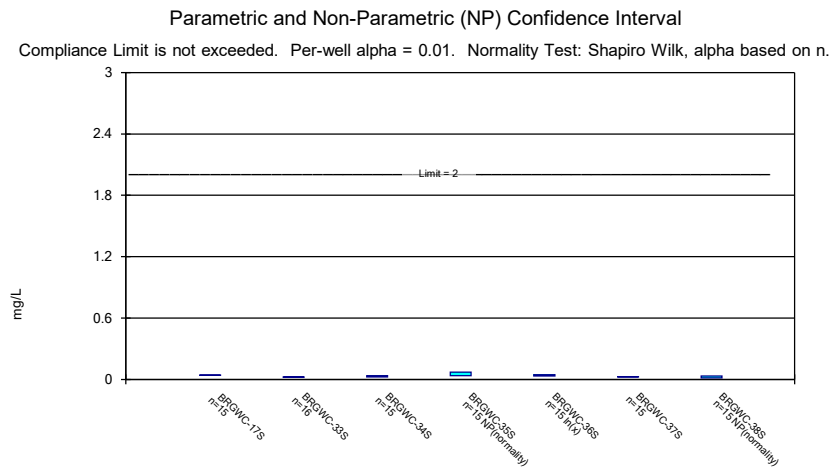
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	BRGWC-37S	0.001	0.0001	0.0013	No	15	0.00088	0.0003167	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00034	0.0013	No	15	0.0004333	0.0001676	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-17S	0.03	0.00097	0.089	No	15	0.01839	0.01472	60	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-33S	0.0103	0.009187	0.089	No	16	0.009744	0.0008563	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.03	0.00089	0.089	No	15	0.02029	0.01421	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-35S	0.0022	0.002	0.089	No	15	0.00214	0.00008281	0	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.0026	0.0022	0.089	No	15	0.0043	0.007111	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02256	0.02032	0.089	No	15	0.02144	0.001659	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-17S	0.0002	0.000084	0.002	No	13	0.0001726	0.00005268	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	14	0.0001736	0.00005486	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00007	0.002	No	13	0.0001677	0.00005615	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00011	0.002	No	13	0.0001777	0.00004419	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.0001	0.002	No	13	0.0001769	0.00004553	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00011	0.002	No	13	0.0001777	0.00004549	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001773	0.0001034	0.002	No	13	0.0001404	0.00004968	7.692	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.00269	0.001711	0.05	No	15	0.003087	0.001371	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.005	0.0028	0.05	No	16	0.003919	0.001242	50	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.005369	0.003098	0.05	No	15	0.004313	0.001805	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.04205	0.03334	0.05	No	15	0.03769	0.006428	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00022	0.00018	0.002	No	16	0.0002456	0.0002023	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.00019	0.002	No	15	0.0003953	0.0003188	20	None	No	0.01	NP (normality)



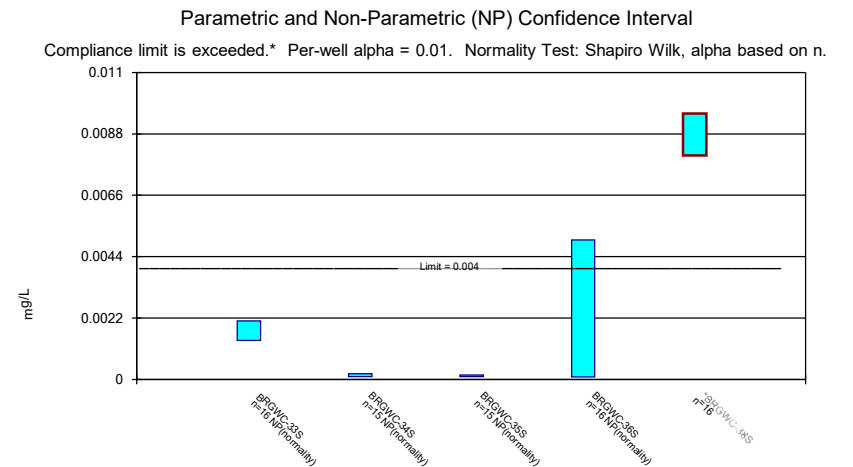
Constituent: Antimony Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP



Constituent: Arsenic Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP



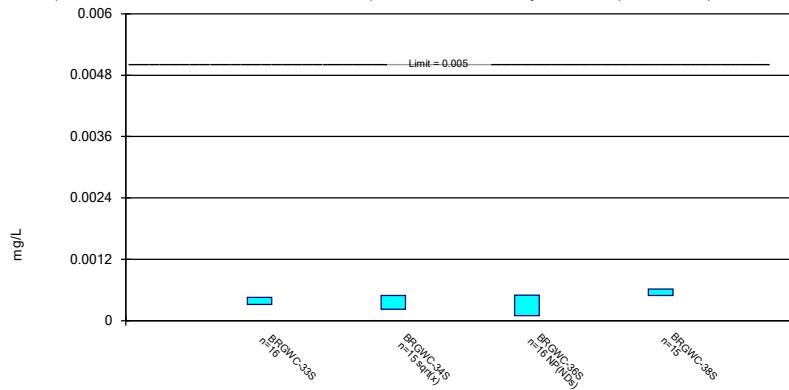
Constituent: Barium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP



Constituent: Beryllium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

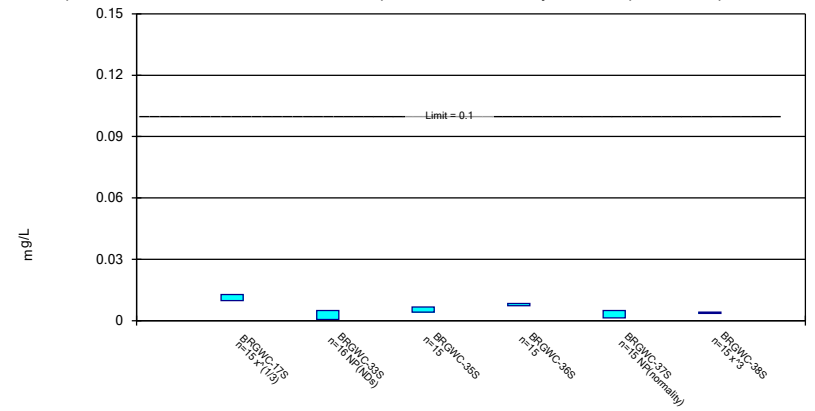
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

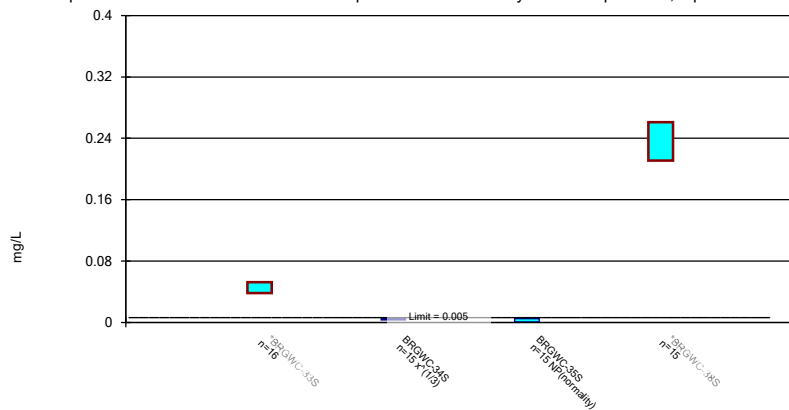
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

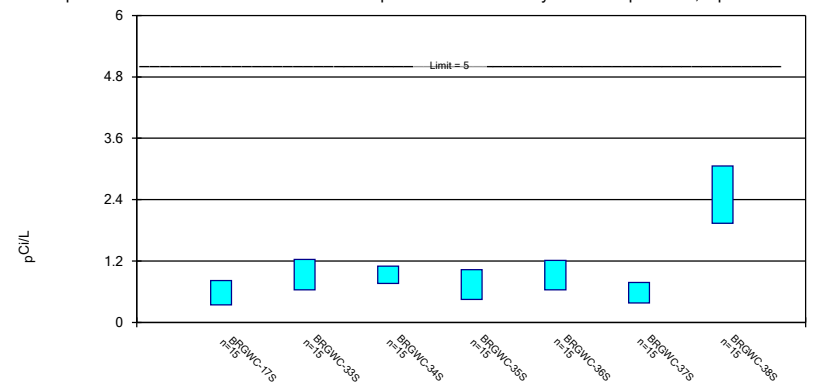
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

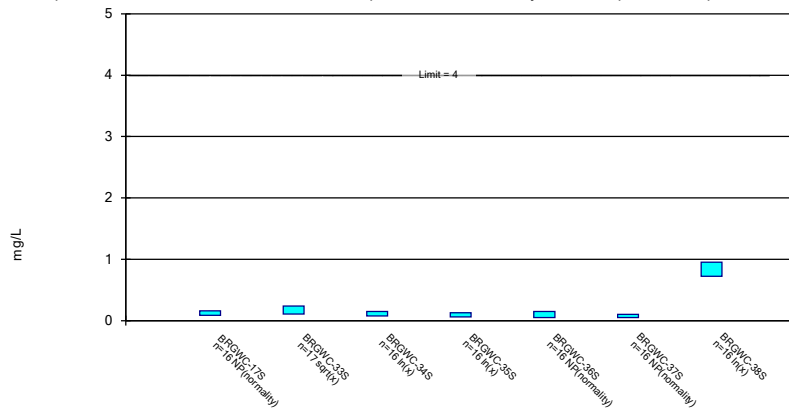
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals -
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

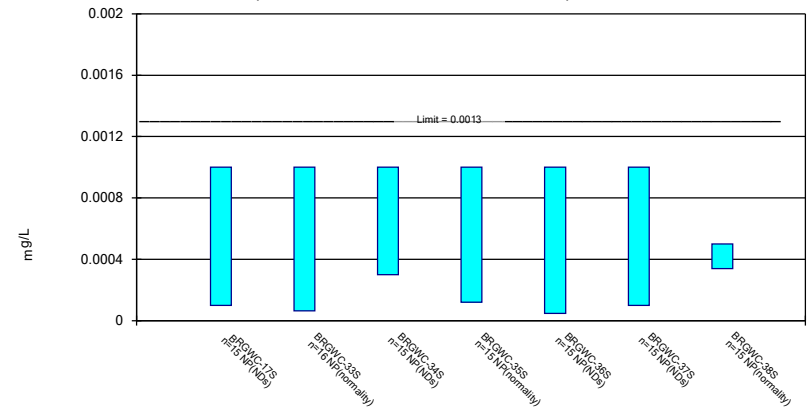
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

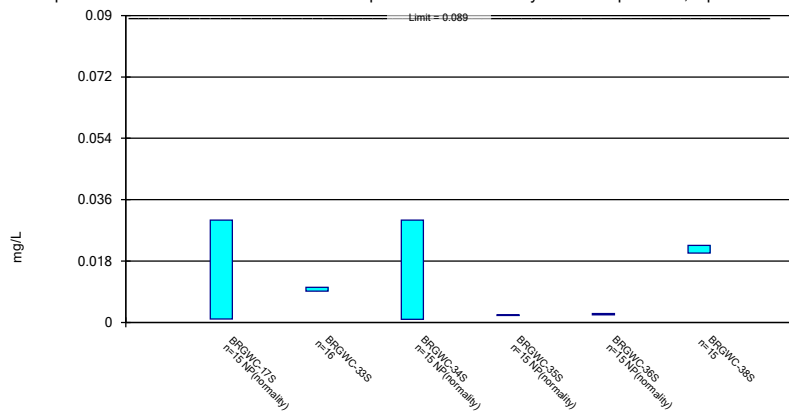
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

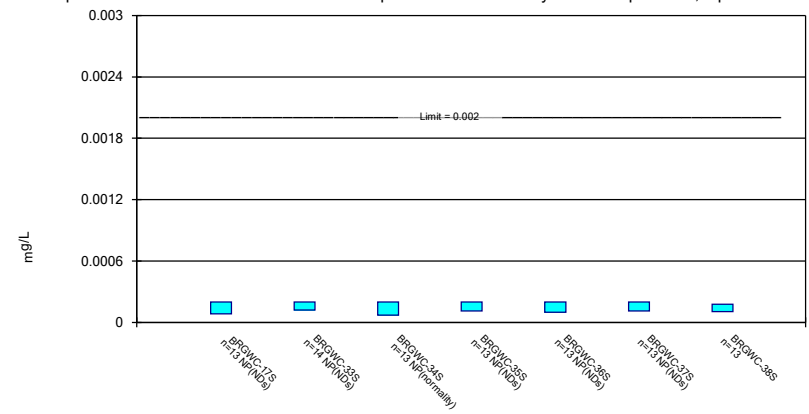
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

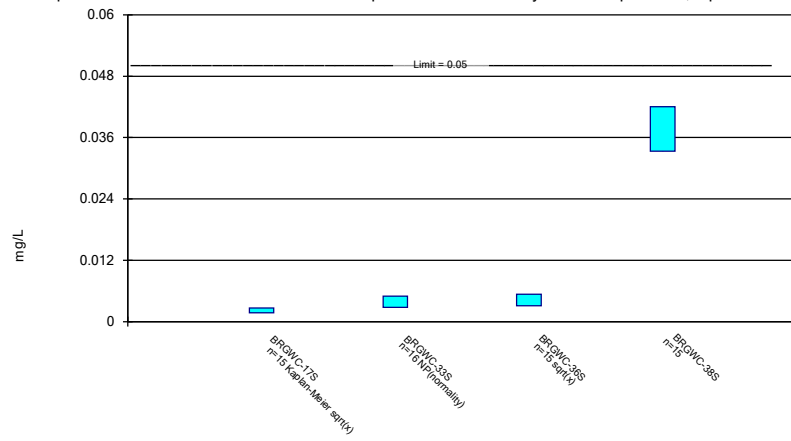
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

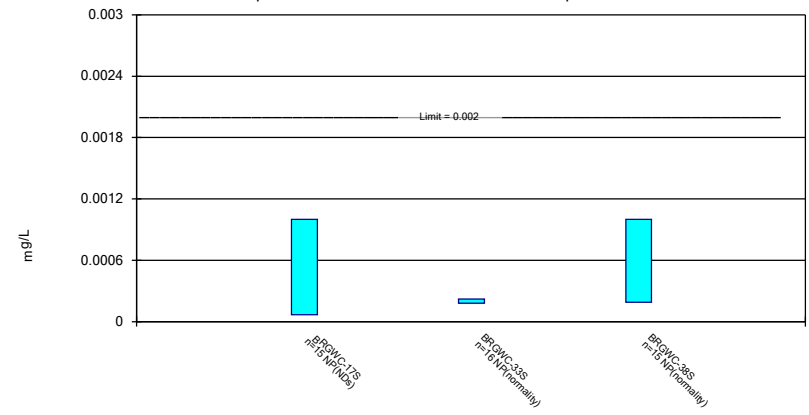
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
 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 11/28/2021 8:12 AM View: Confidence Intervals - Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE I.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:18 AM

<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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006894	-108	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02062	-71	-53	Yes	15	0	n/a	n/a	0.01	NP

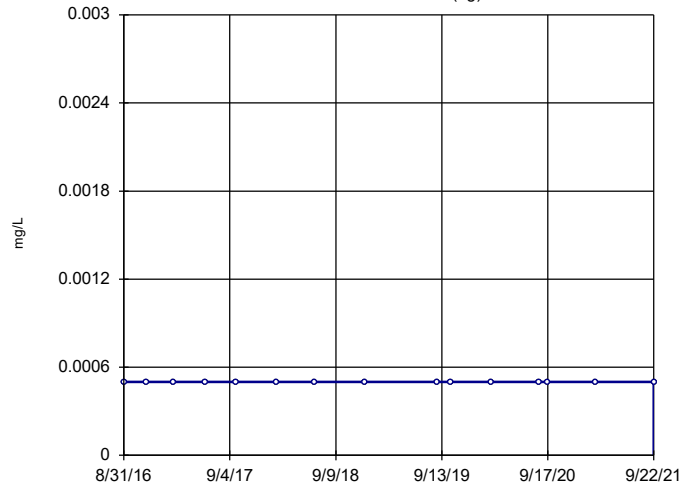
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/29/2021, 9:18 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	11	53	No	15	80	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0004551	-45	-53	No	15	13.33	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.000186	-42	-43	No	13	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	16	53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	-9	-53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006894	-108	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02062	-71	-53	Yes	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

BRGWA-2I (bg)

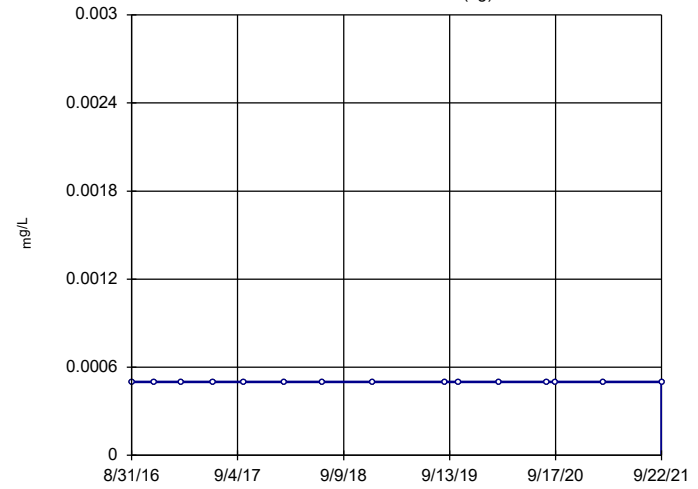


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

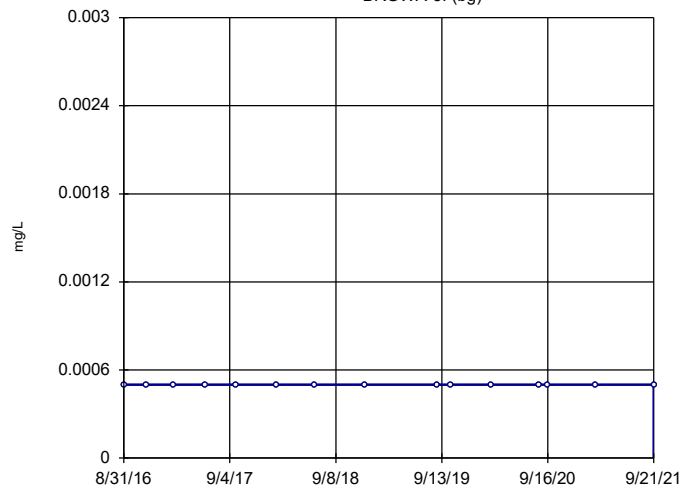


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

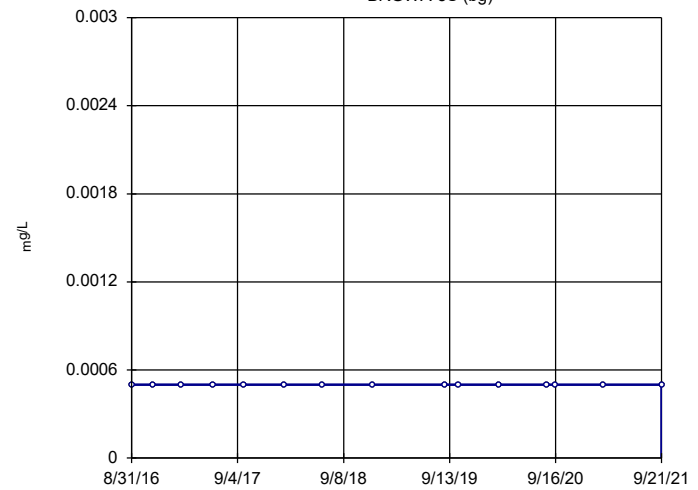


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

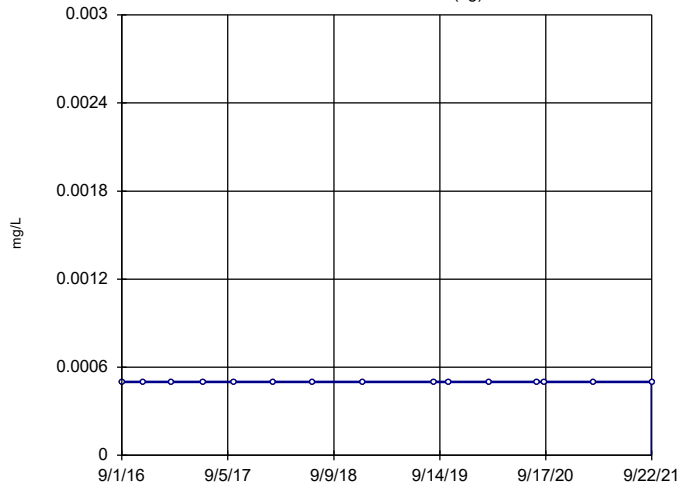


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

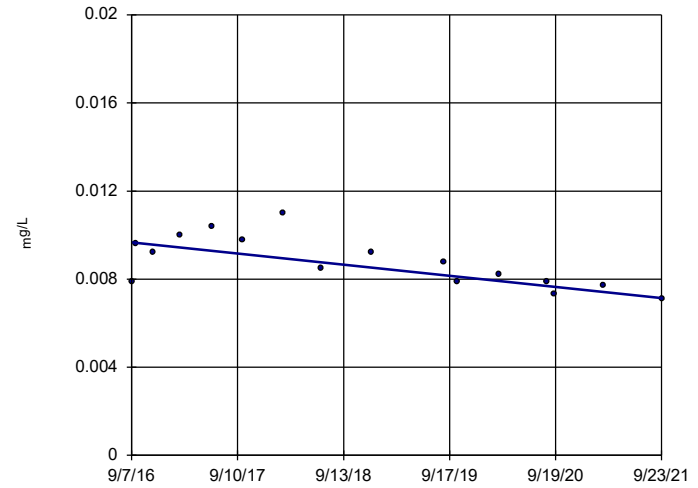


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

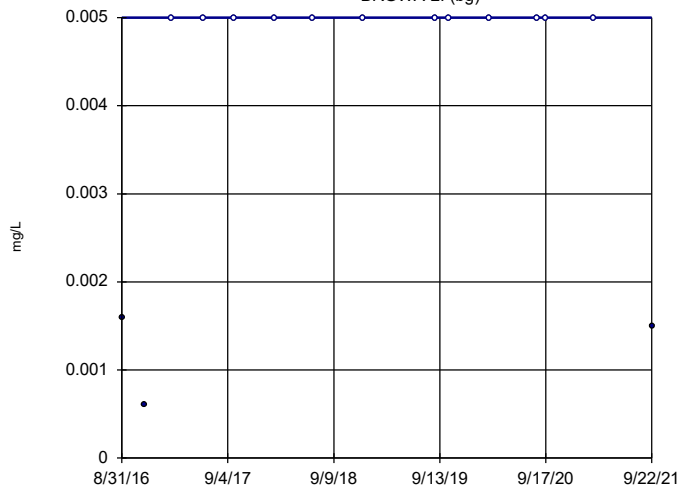


n = 16
 Slope = -0.0005005
 units per year.
 Mann-Kendall
 statistic = -64
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

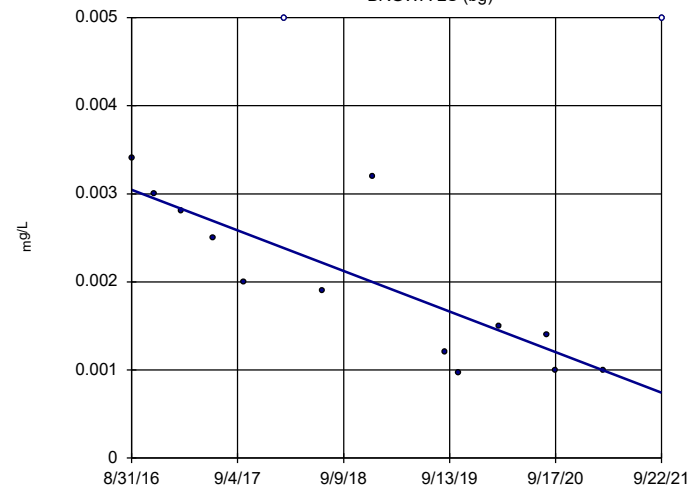


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 11
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

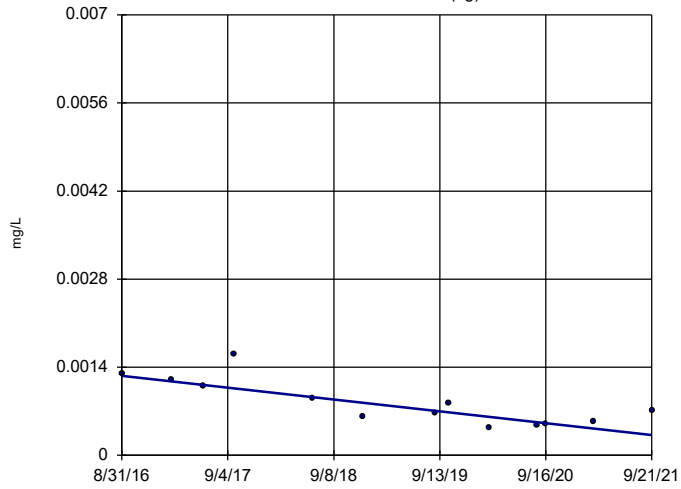


n = 15
 Slope = -0.0004551
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)



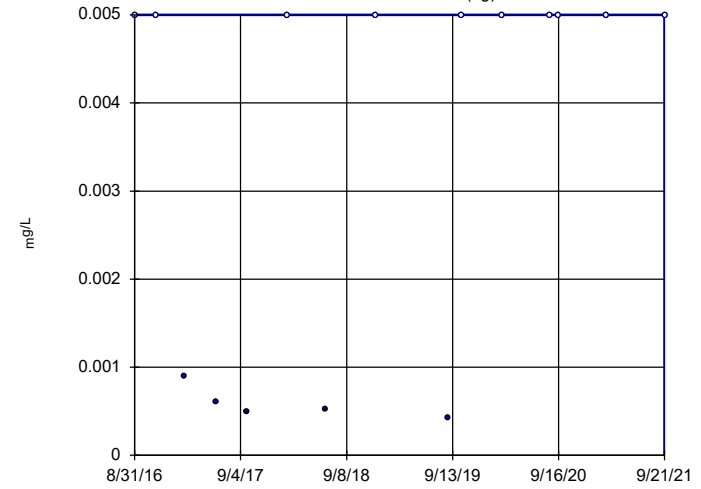
n = 13
 Slope = -0.000186 units per year.
 Mann-Kendall statistic = -42
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



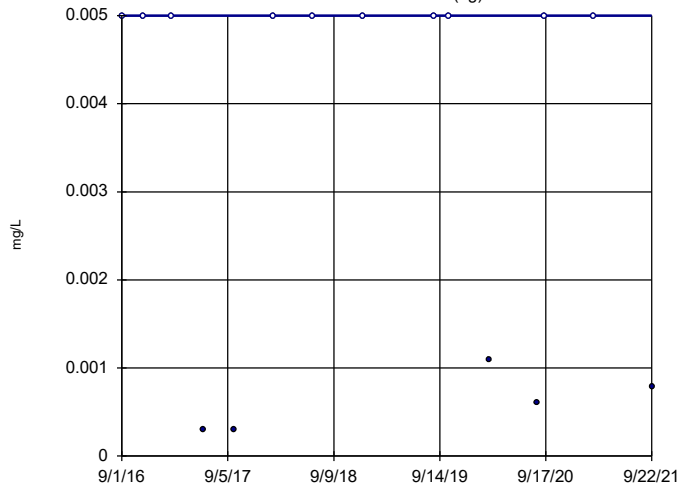
n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 16
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)

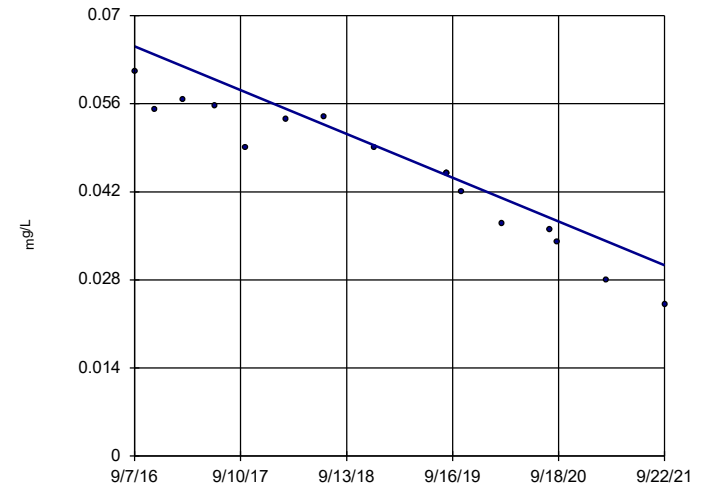


n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = -9
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

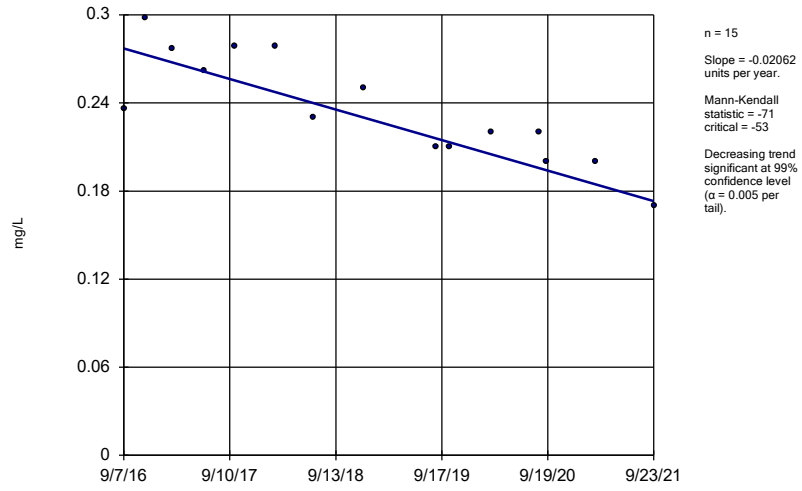
BRGWC-33S



n = 16
 Slope = -0.006894 units per year.
 Mann-Kendall statistic = -108
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-38S

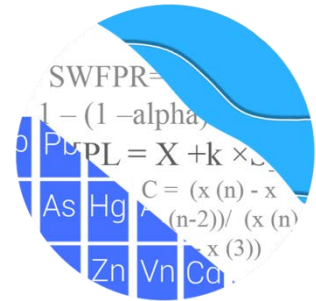


Constituent: Cobalt Analysis Run 11/29/2021 9:15 AM View: Trend Tests - App IV Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

GROUNDWATER STATS CONSULTING

July 29, 2022

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374



Re: Plant Branch Pond E – February 2022 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S

Data were sent electronically to GSC, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to GSC.

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The February 2022 samples were received at a later date for combined radium 226 + 228; therefore, the analysis for this constituent is provided as an addendum at the end of this report.

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 well/constituent pairs with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they were plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the

absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a number of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, they did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – February 2022

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2022 (Figure D). Background

(upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Chloride: BRGWC-17, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-38S
- pH (lower limit): BRGWC-33S, BRGWC-34S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWC-17S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. While several statistically significant decreasing trends were noted for upgradient and downgradient wells, statistically significant increasing trends were

identified for boron in downgradient well BRGWC-35S, calcium in upgradient well BRGWA-6S and downgradient well BRGWC-17S, and chloride in downgradient well BRGWC-36S. A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – February 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 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).

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). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). 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 State and Federal well/constituent pairs:

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

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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 trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. While no statistically significant increasing trends were identified, statistically significant decreasing trends were noted for the following well/constituent pairs:

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

Addendum Report – Combined Radium 226 + 228 – May 2022

For combined radium 226 + 228, time series and box plots were constructed to evaluate concentrations at the facility (Figures J and K, respectively). Upgradient wells were screened for spurious values that would elevate statistical limits, and no values were flagged during this analysis (Figure C).

Following the methods detailed above for Appendix IV parameters, upper tolerance limits using pooled upgradient well data through February 2022 were constructed (Figure L). The resultant background limits were compared against the respective MCL in order to establish the GWPS (Figure M).

Confidence intervals using data through February 2022 for each downgradient and delineation well/constituent pair with at least 4 samples were compared against corresponding Groundwater Protection Standards (GWPS) and no exceedances were identified (Figure N).

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/12/2022 12:57 PM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S

Arsenic (mg/L)
BRGWC-34S

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S

Chromium (mg/L)
BRGWC-34S

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S

Lithium (mg/L)
BRGWC-37S

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S

Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-33S	0.04	n/a	2/1/2022	1.1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	2/1/2022	2.2	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	2/1/2022	2.1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	2/1/2022	1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	2/1/2022	1.6	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/1/2022	41.5	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/1/2022	34.3	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/1/2022	81.7	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/1/2022	73.8	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/1/2022	49.7	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/1/2022	37.8	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/1/2022	4.9	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/1/2022	13.1	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/1/2022	5.9	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/1/2022	6	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2022	7.6	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2022	5.8	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	2/1/2022	0.95	Yes	85	n/a	n/a	54.12	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.069	5.911	2/1/2022	4.82	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-34S	7.069	5.911	2/1/2022	5.87	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.069	5.911	2/1/2022	5.65	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.069	5.911	2/2/2022	5.8	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.069	5.911	2/1/2022	4.06	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2022	139	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/1/2022	99.7	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/1/2022	243	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2022	256	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/1/2022	195	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/1/2022	287	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	2/1/2022	354	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	2/1/2022	449	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	2/1/2022	521	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	2/1/2022	441	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	2/1/2022	560	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.04	n/a	2/1/2022	0.013J	No	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.04	n/a	2/1/2022	1.1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	2/1/2022	2.2	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	2/1/2022	2.1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	2/1/2022	1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-37S	0.04	n/a	2/2/2022	0.032J	No	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	2/1/2022	1.6	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/1/2022	41.5	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/1/2022	34.3	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/1/2022	81.7	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/1/2022	73.8	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/1/2022	49.7	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-37S	24	n/a	2/2/2022	3.7	No	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/1/2022	37.8	Yes	75	n/a	n/a	4	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/1/2022	4.9	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/1/2022	13.1	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/1/2022	5.9	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/1/2022	6	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2022	7.6	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/2/2022	1.8	No	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2022	5.8	Yes	75	n/a	n/a	0	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.19	n/a	2/1/2022	0.079J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.19	n/a	2/1/2022	0.053J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.19	n/a	2/1/2022	0.06J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.19	n/a	2/1/2022	0.055J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.19	n/a	2/1/2022	0.1ND	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.19	n/a	2/2/2022	0.1ND	No	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	2/1/2022	0.95	Yes	85	n/a	n/a	54.12	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-17S	7.069	5.911	2/1/2022	6.39	No	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-33S	7.069	5.911	2/1/2022	4.82	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-34S	7.069	5.911	2/1/2022	5.87	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-35S	7.069	5.911	2/1/2022	6.09	No	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-36S	7.069	5.911	2/1/2022	5.65	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-37S	7.069	5.911	2/2/2022	5.8	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
pH, Field (S.U.)	BRGWC-38S	7.069	5.911	2/1/2022	4.06	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2	
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2022	139	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/1/2022	99.7	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/1/2022	243	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2022	256	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/1/2022	195	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/2/2022	0.5ND	No	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/1/2022	287	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	2/1/2022	354	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	299	n/a	2/1/2022	209	No	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	2/1/2022	449	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	2/1/2022	521	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	2/1/2022	441	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-37S	299	n/a	2/2/2022	46	No	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	2/1/2022	560	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-35S	0.1835	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1798	62	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.731	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.32	-67	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.803	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2086	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2751	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.02	69	53	Yes	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1124	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05509	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1481	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-23.05	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.6	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-14.05	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-36	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-53.52	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.09	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-47.27	-87	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.003356	31	53	No	15	26.67	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	10	53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	7	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	18	53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-5	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	1	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1835	83	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.03249	48	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.0661	-43	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.6672	48	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.04148	15	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0	2	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4361	-27	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1798	62	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.731	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-33S	-3.487	-53	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.32	-67	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	2.149	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-0.263	-18	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.803	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.06183	-41	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	-0.03836	-34	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2086	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.08614	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	-0.03205	-24	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.1682	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-33S	-0.09171	-7	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2751	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.037	15	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.02	69	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-38S	0.07444	9	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-18	-63	No	17	47.06	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0	42	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0	49	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	-0.005085	-27	-63	No	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.0003717	48	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0.02104	33	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1124	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03283	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.02424	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05509	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.0009881	-2	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.006772	-28	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-34S	0.00996	23	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	0.001802	2	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	0.01714	8	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1481	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2041	-31	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-2	-53	No	15	40	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.3476	-39	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.08161	-49	-53	No	15	40	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01199	-21	-53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	3.842	34	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-23.05	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.6	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-35S	-2.831	-26	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-14.05	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-36	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-5.671	-21	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	2.173	17	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.555	-23	-53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-6.868	-52	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.765	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	1.862	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-53.52	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	1.633	7	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.09	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-47.27	-87	-53	Yes	15	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	80	n/a	n/a	91.25	n/a	n/a	0.01652	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	80	n/a	n/a	75	n/a	n/a	0.01652	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	n/a	80	n/a	n/a	0	n/a	n/a	0.01652	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	80	n/a	n/a	15	n/a	n/a	0.01652	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	78	n/a	n/a	46.15	n/a	n/a	0.0183	NP Inter(normality)
Fluoride (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	85	n/a	n/a	54.12	n/a	n/a	0.01278	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	80	n/a	n/a	78.75	n/a	n/a	0.01652	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	80	n/a	n/a	42.5	n/a	n/a	0.01652	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	70	n/a	n/a	85.71	n/a	n/a	0.02758	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	80	n/a	n/a	68.75	n/a	n/a	0.01652	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)

PLANT BRANCH POND E GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.0013	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	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	0.009429	0.007947	0.004	Yes	17	0.008688	0.001183	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05147	0.03704	0.006	Yes	17	0.04425	0.01152	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-38S	0.2574	0.2077	0.006	Yes	16	0.2326	0.0382	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0006	0.006	No	16	0.00244	0.001034	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	16	0.002688	0.0008547	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	16	0.002725	0.0007523	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.00073	0.01	No	16	0.004076	0.001758	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.005	0.0006	0.01	No	17	0.00448	0.001468	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	16	0.004152	0.001822	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	16	0.004197	0.00173	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.00078	0.01	No	16	0.004162	0.001802	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003716	0.001844	0.01	No	16	0.00278	0.001439	12.5	None	No	0.01	Param.
Barium (mg/L)	BRGWC-17S	0.04297	0.03881	2	No	16	0.04089	0.003197	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.02252	0.02022	2	No	17	0.02137	0.001831	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-34S	0.03384	0.02478	2	No	16	0.02953	0.00716	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0701	0.034	2	No	16	0.04851	0.0193	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04353	0.03178	2	No	16	0.03832	0.01057	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02513	0.02307	2	No	16	0.0241	0.001583	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0338	0.015	2	No	16	0.02167	0.009964	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.0021	0.0014	0.004	No	17	0.001935	0.0008448	5.882	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-34S	0.0002	0.00012	0.004	No	16	0.000745	0.001661	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00016	0.0001	0.004	No	16	0.0007387	0.001664	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.005	0.000084	0.004	No	17	0.001248	0.002146	23.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-38S	0.009429	0.007947	0.004	Yes	17	0.008688	0.001183	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004468	0.0003061	0.005	No	17	0.0003765	0.0001123	5.882	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004701	0.0002079	0.005	No	16	0.000355	0.0002217	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0005	0.0001	0.005	No	17	0.0004518	0.0001362	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0006137	0.0004963	0.005	No	16	0.000555	0.00009018	6.25	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-17S	0.01278	0.00989	0.1	No	16	0.01139	0.00236	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.005	0.00049	0.1	No	17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006568	0.004294	0.1	No	16	0.005431	0.001748	6.25	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008366	0.007184	0.1	No	16	0.007775	0.0009081	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.0018	0.0014	0.1	No	16	0.002162	0.001422	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004147	0.003452	0.1	No	16	0.003706	0.0007637	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05147	0.03704	0.006	Yes	17	0.04425	0.01152	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-34S	0.004648	0.003304	0.006	No	16	0.004025	0.001146	6.25	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.005	0.0008	0.006	No	16	0.00375	0.00196	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-38S	0.2574	0.2077	0.006	Yes	16	0.2326	0.0382	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.1295	0.07959	4	No	17	0.1092	0.04531	5.882	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.227	0.1032	4	No	18	0.1746	0.1147	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1434	0.07412	4	No	17	0.1203	0.08469	5.882	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1233	0.06137	4	No	17	0.1028	0.07438	11.76	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.15	0.054	4	No	17	0.115	0.1094	52.94	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	17	0.07941	0.02759	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9507	0.7353	4	No	17	0.8541	0.199	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.001	0.0001	0.015	No	16	0.0008846	0.0003154	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.001	0.00007	0.015	No	17	0.0003692	0.0004218	29.41	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.001	0.0003	0.015	No	16	0.0008431	0.00034	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.001	0.00012	0.015	No	16	0.0007825	0.0003897	75	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.001	0.000047	0.015	No	16	0.0009404	0.0002383	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.001	0.0001	0.015	No	16	0.0008875	0.0003074	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00034	0.015	No	16	0.0004688	0.0002151	12.5	None	x	0.01	NP (normality)
Lithium (mg/L)	BRGWC-17S	0.03	0.00097	0.089	No	16	0.0173	0.01487	56.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01022	0.009095	0.089	No	17	0.009659	0.0009	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.03	0.00085	0.089	No	16	0.01907	0.01457	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0022	0.002	0.089	No	16	0.002138	0.00008062	0	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.0026	0.0023	0.089	No	16	0.004175	0.006888	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02242	0.02028	0.089	No	16	0.02135	0.001643	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	14	0.0001746	0.00005114	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	15	0.0001753	0.0000533	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00012	0.002	No	14	0.00017	0.00005463	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	14	0.0001793	0.00004287	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	14	0.0001786	0.00004418	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	14	0.0001793	0.00004411	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001803	0.000109	0.002	No	14	0.0001446	0.00005032	14.29	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.002624	0.00175	0.05	No	16	0.003025	0.001347	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.005	0.0028	0.05	No	17	0.003982	0.001231	52.94	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-36S	0.005193	0.003031	0.05	No	16	0.0042	0.001801	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.04143	0.03287	0.05	No	16	0.03715	0.006579	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00024	0.00018	0.002	No	17	0.00029	0.000268	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.00019	0.002	No	16	0.0004331	0.0003431	25	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/12/2022, 1:23 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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006591	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02051	-84	-58	Yes	16	0	n/a	n/a	0.01	NP

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/12/2022, 1:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	-2	-58	No	16	75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0004206	-54	-58	No	16	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001573	-43	-48	No	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	21	58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	-4	-58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006591	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02051	-84	-58	Yes	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table - Combined Radium 226 + 228

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/4/2022, 4:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ. Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	n/a	1.547	n/a	n/a	n/a	n/a 80	0.7633	0.2449	0	None	sqrt(x)	0.05	Inter

PLANT BRANCH POND E GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Combined Radium, Total (pCi/L)	5		1.55	5

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

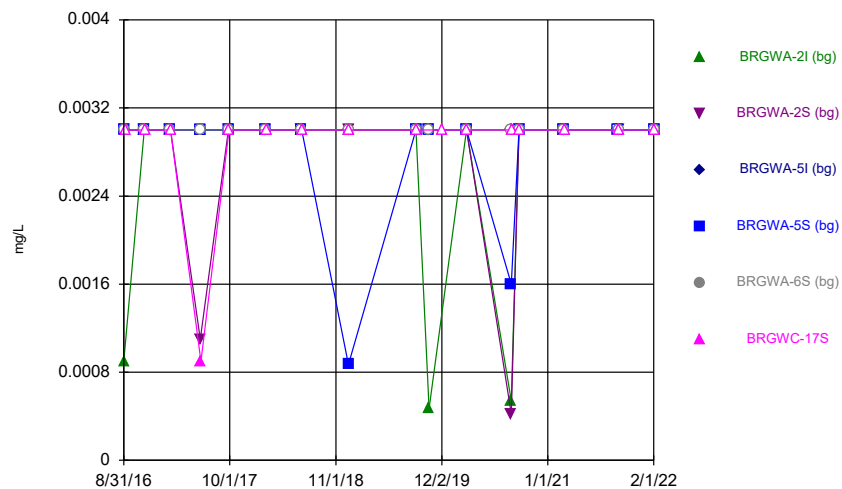
Confidence Intervals - Combined Radium 226 + 228 (No Significant Results)

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/4/2022, 4:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.7932	0.3539	5	No	16	0.5736	0.3376	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.191	0.6311	5	No	16	0.9111	0.4303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.075	0.7337	5	No	16	0.9043	0.2623	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.003	0.4657	5	No	16	0.7343	0.4129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.255	0.6773	5	No	16	0.9662	0.4441	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.7708	0.3955	5	No	16	0.5831	0.2884	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.597	1.871	5	No	16	2.819	1.512	0	None	sqrt(x)	0.01	Param.

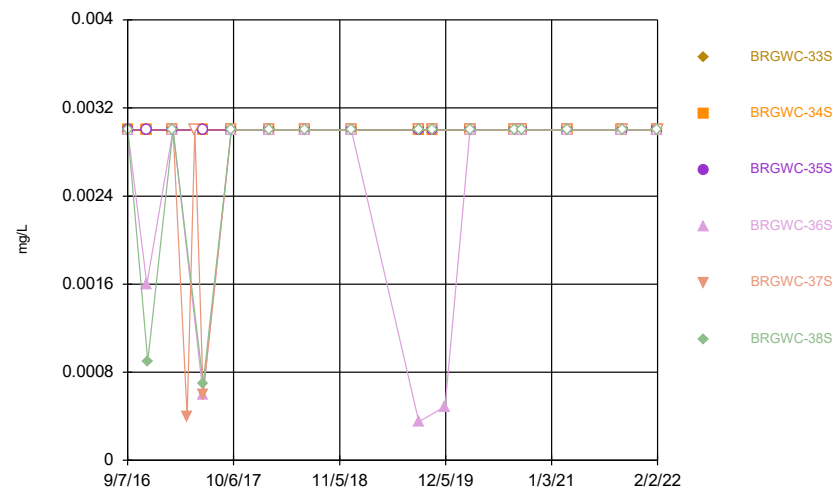
FIGURE A.

Time Series



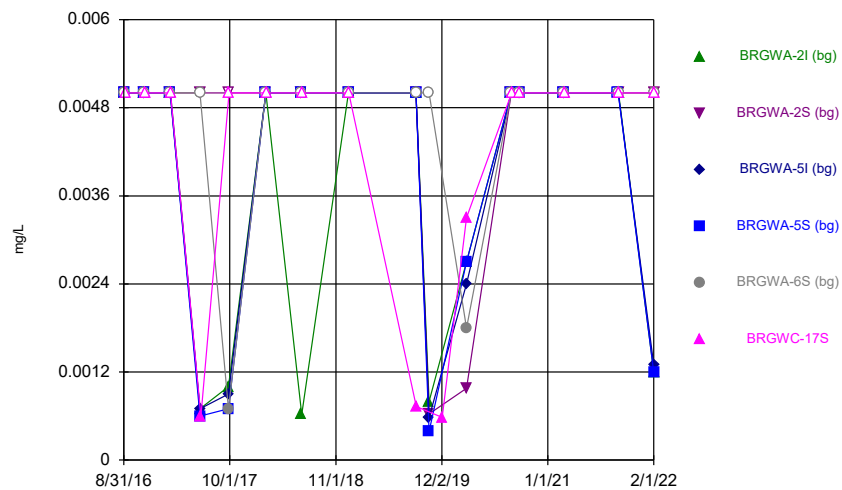
Constituent: Antimony Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



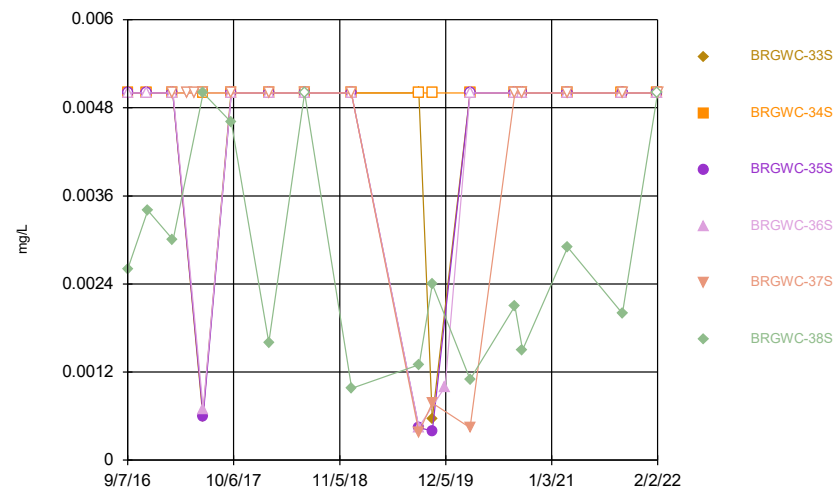
Constituent: Antimony Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



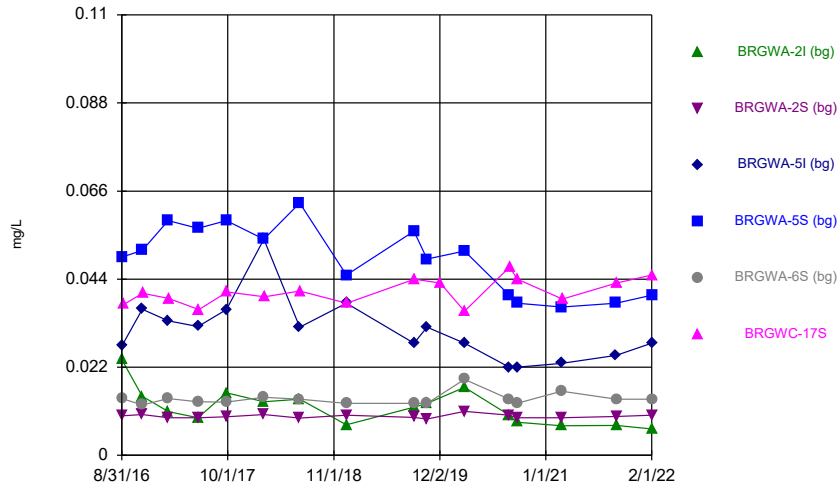
Constituent: Arsenic Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



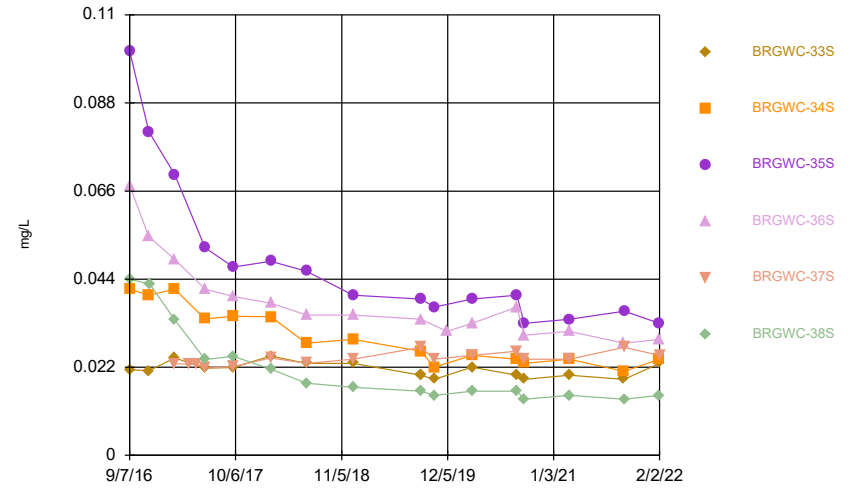
Constituent: Arsenic Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



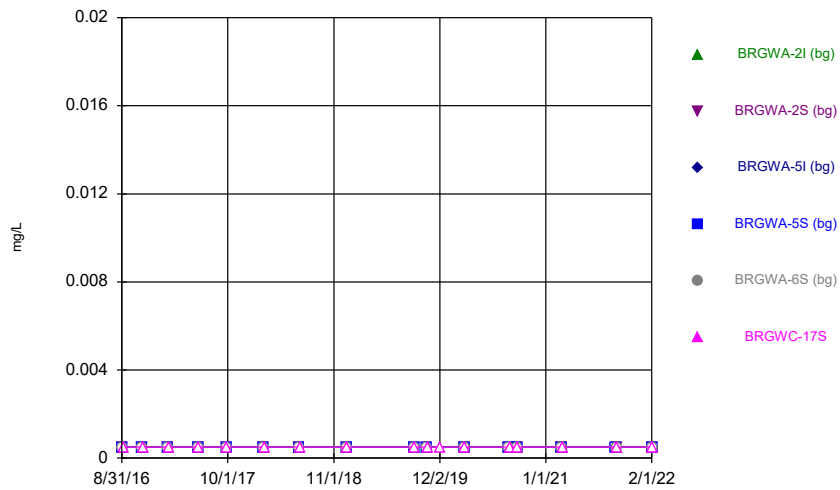
Constituent: Barium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



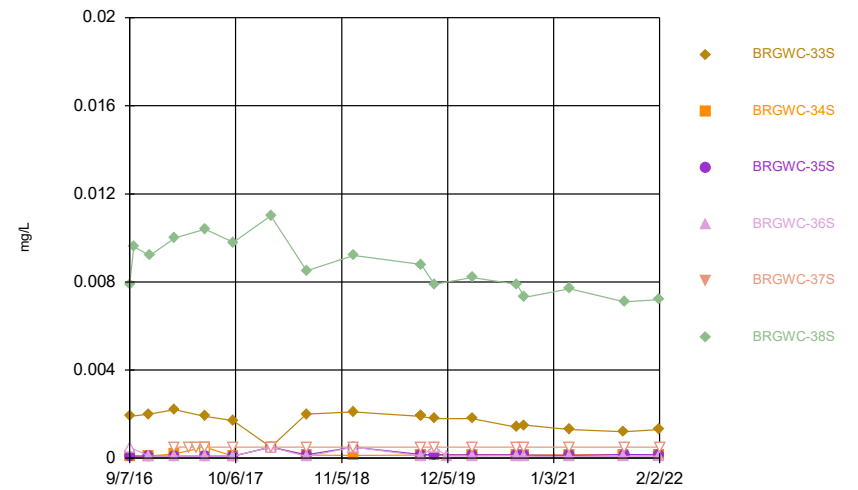
Constituent: Barium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



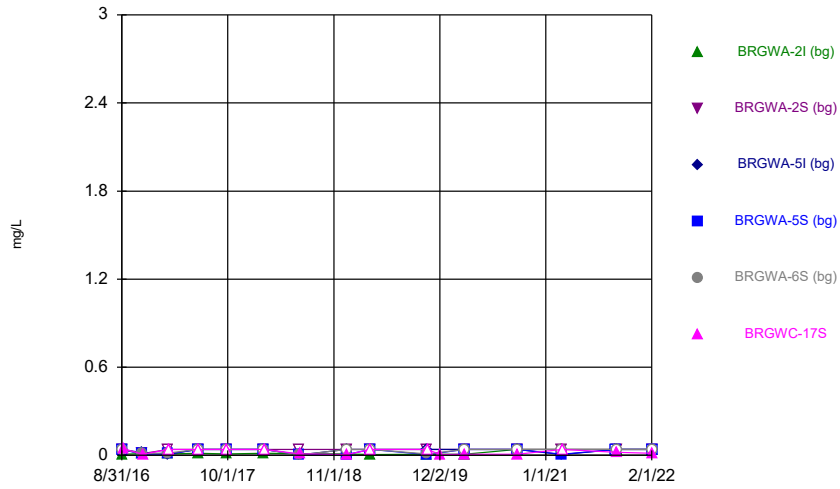
Constituent: Beryllium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



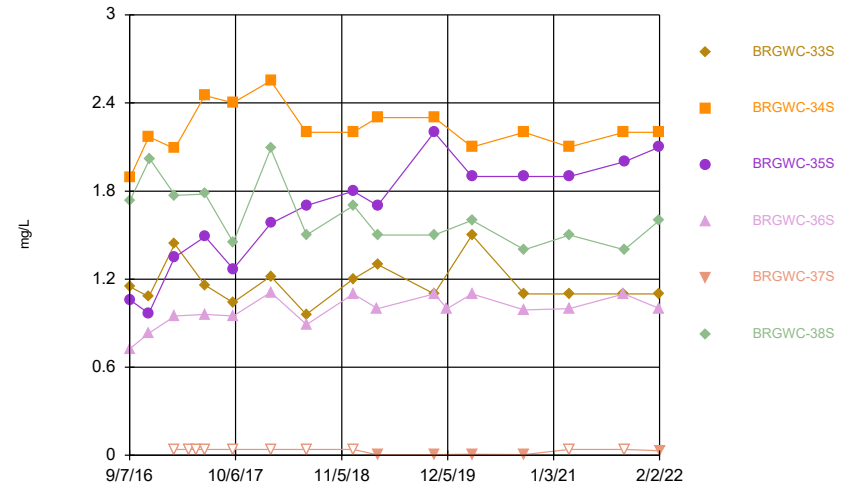
Constituent: Beryllium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



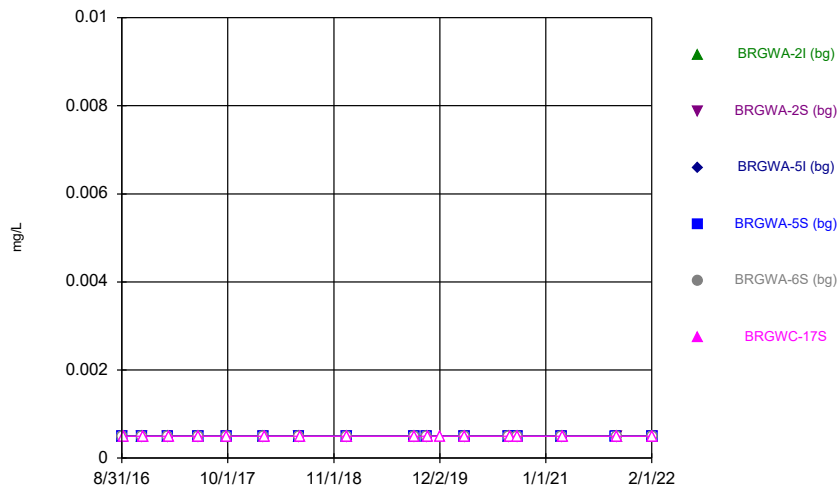
Constituent: Boron Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



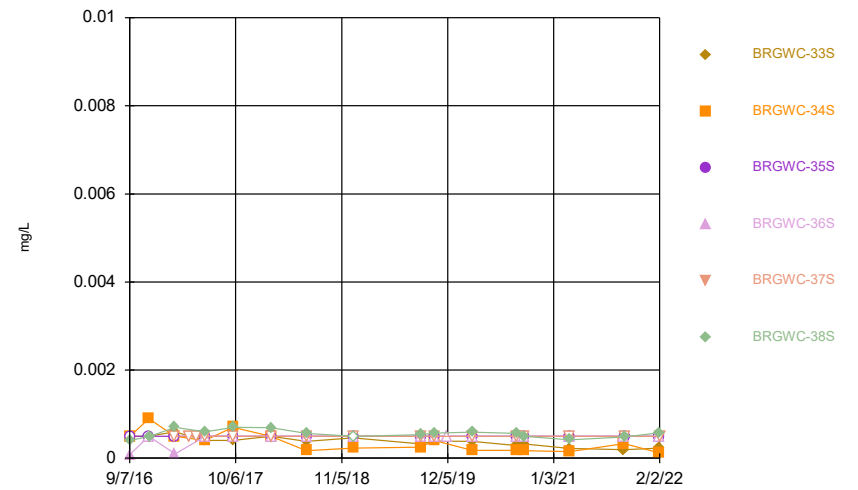
Constituent: Boron Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



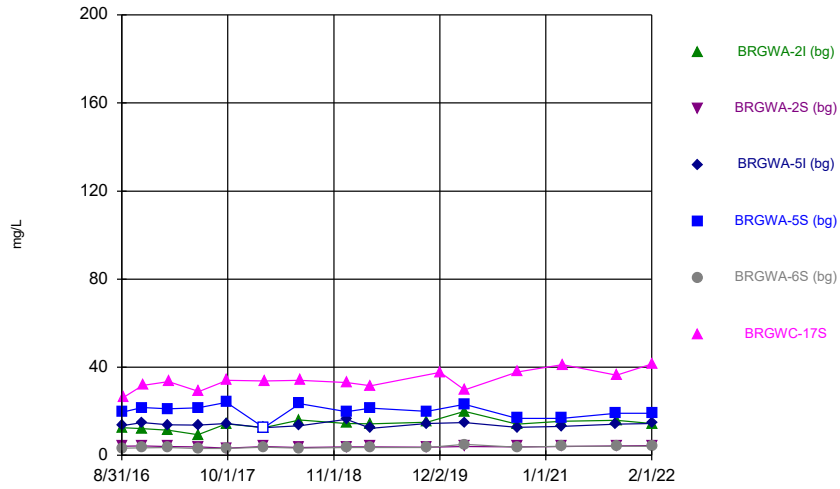
Constituent: Cadmium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



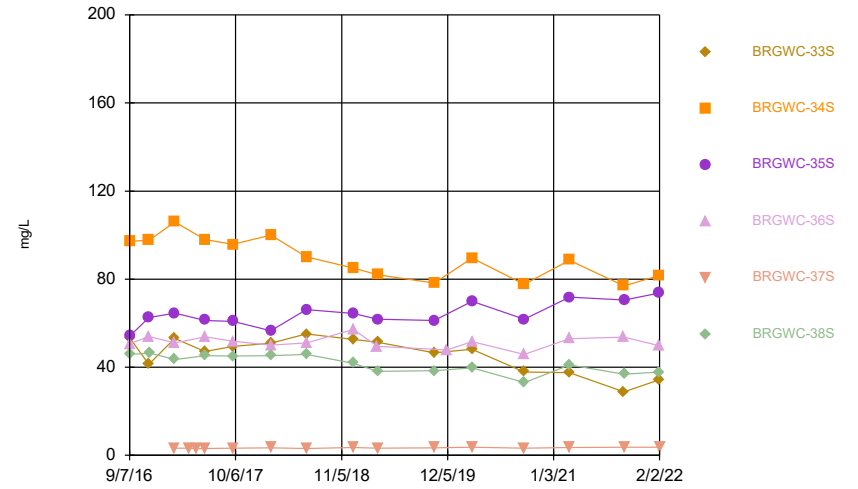
Constituent: Cadmium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



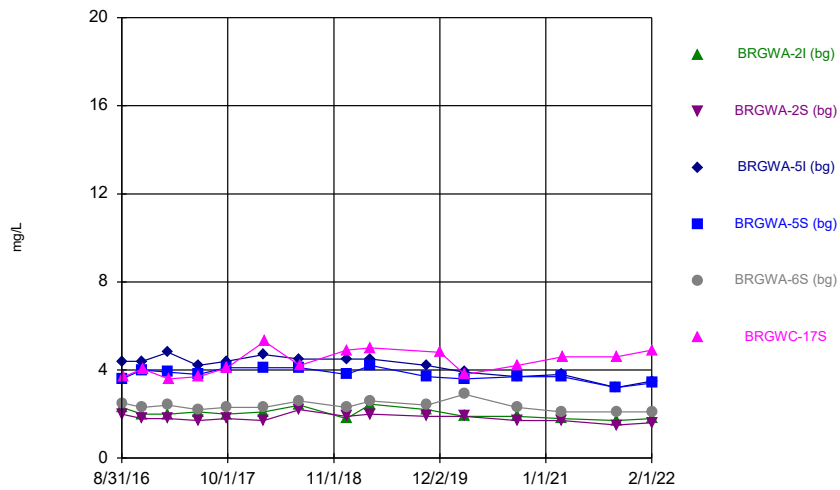
Constituent: Calcium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



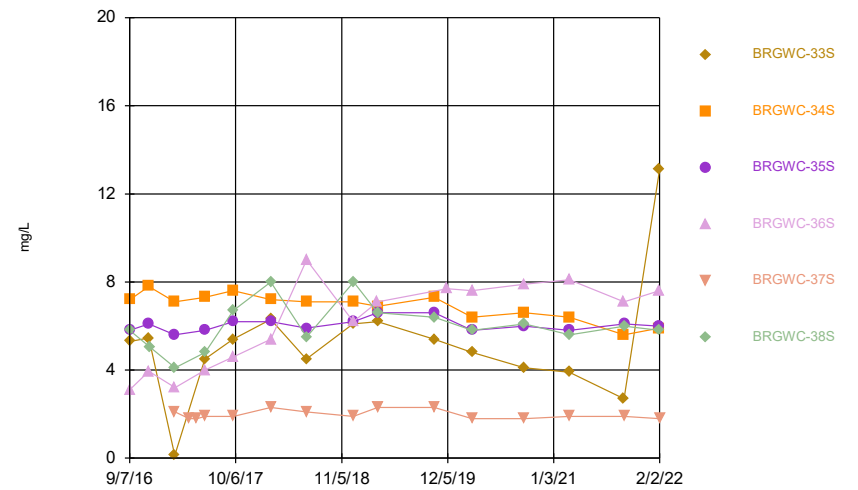
Constituent: Calcium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



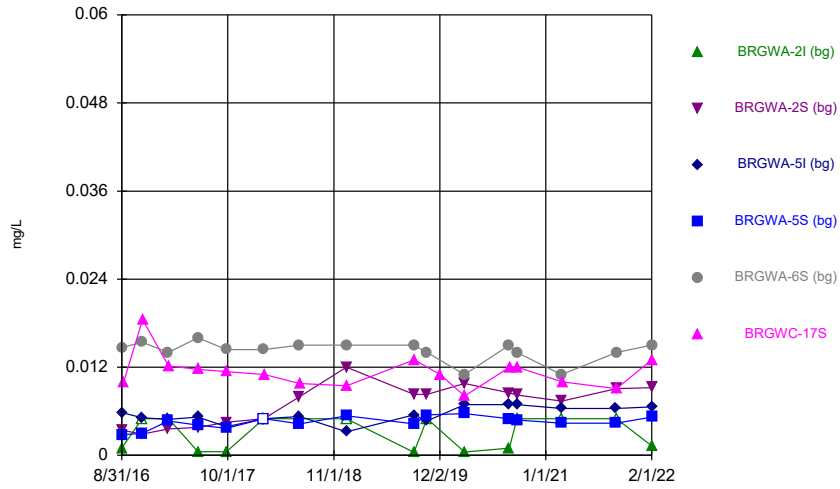
Constituent: Chloride Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



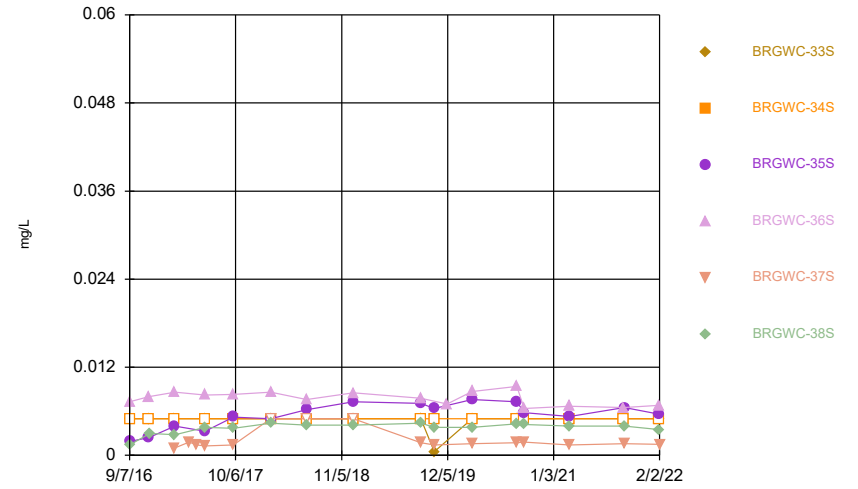
Constituent: Chloride Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



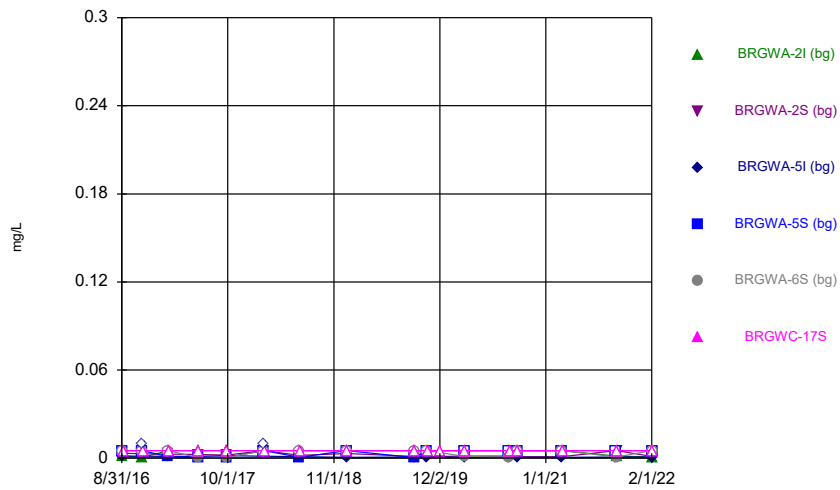
Constituent: Chromium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



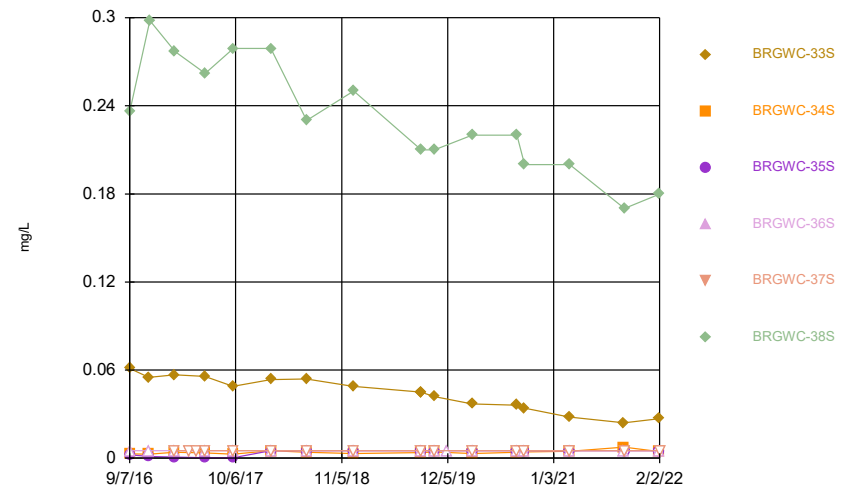
Constituent: Chromium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



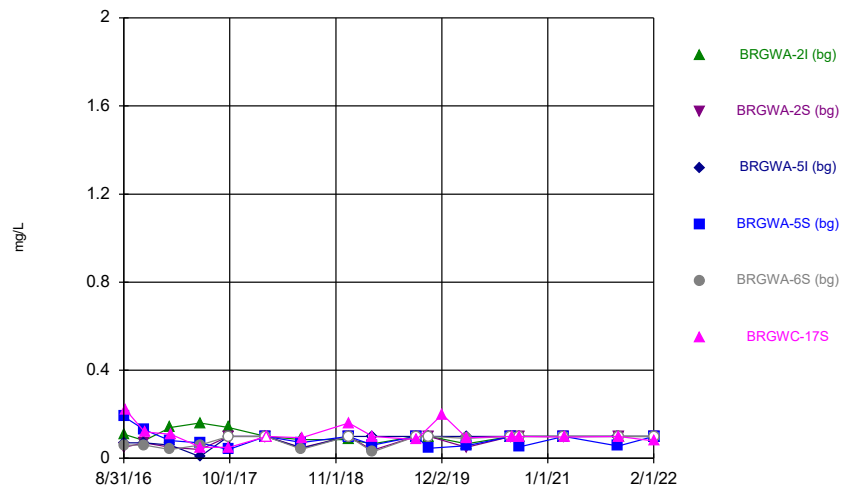
Constituent: Cobalt Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



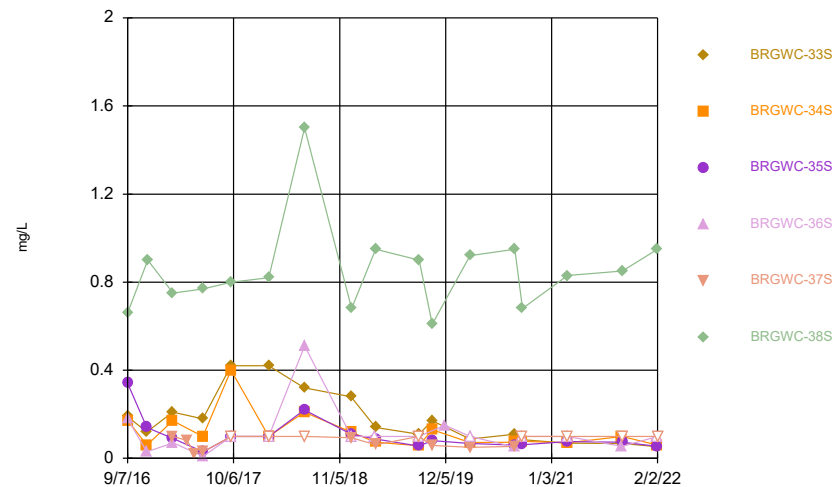
Constituent: Cobalt Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



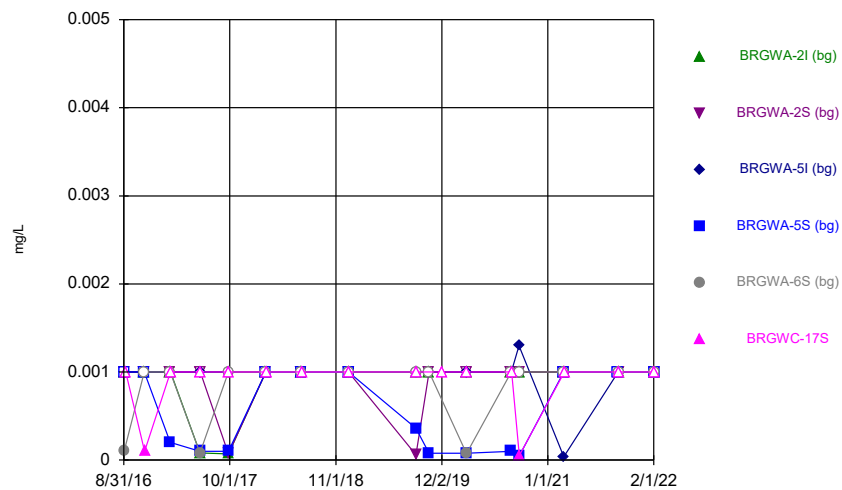
Constituent: Fluoride Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



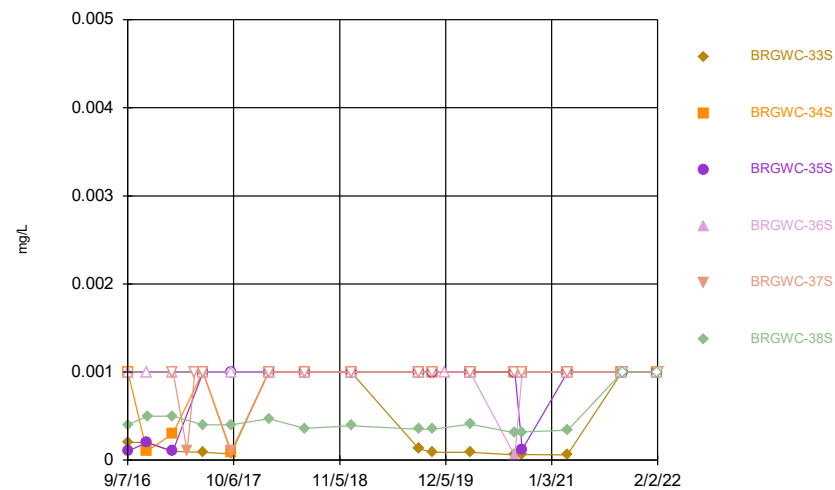
Constituent: Fluoride Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



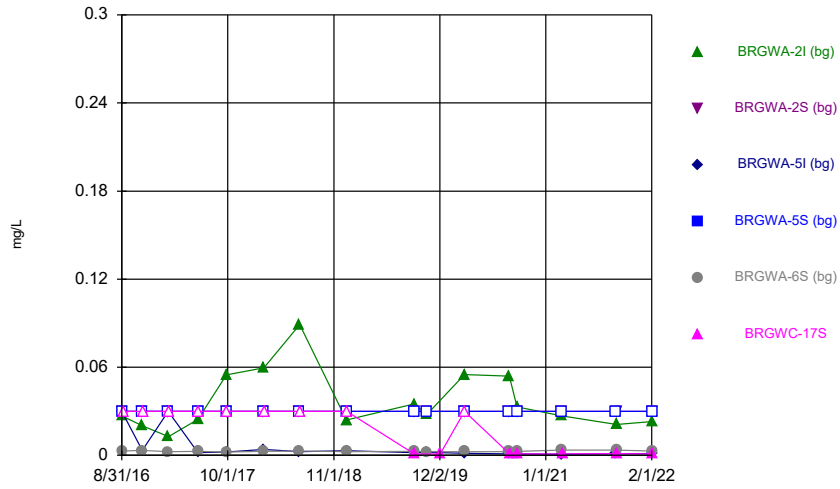
Constituent: Lead Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



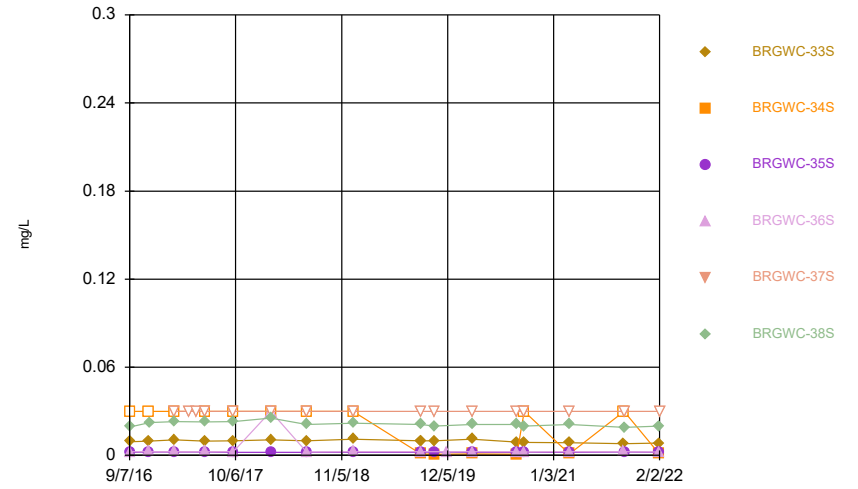
Constituent: Lead Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



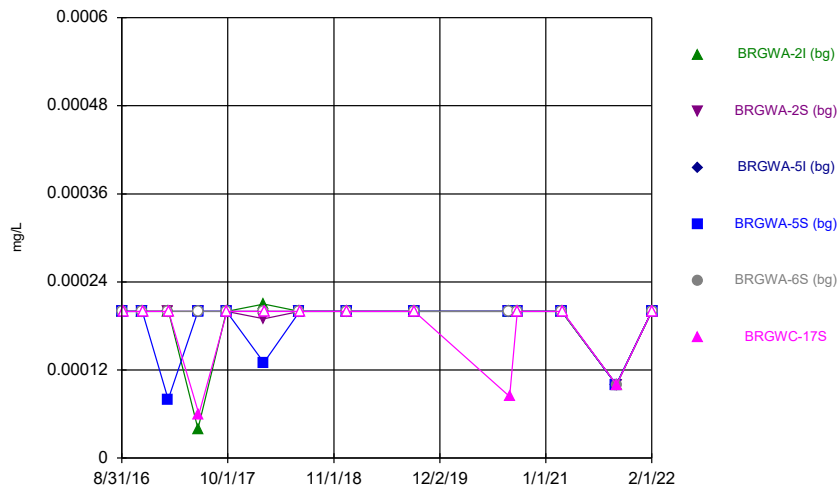
Constituent: Lithium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



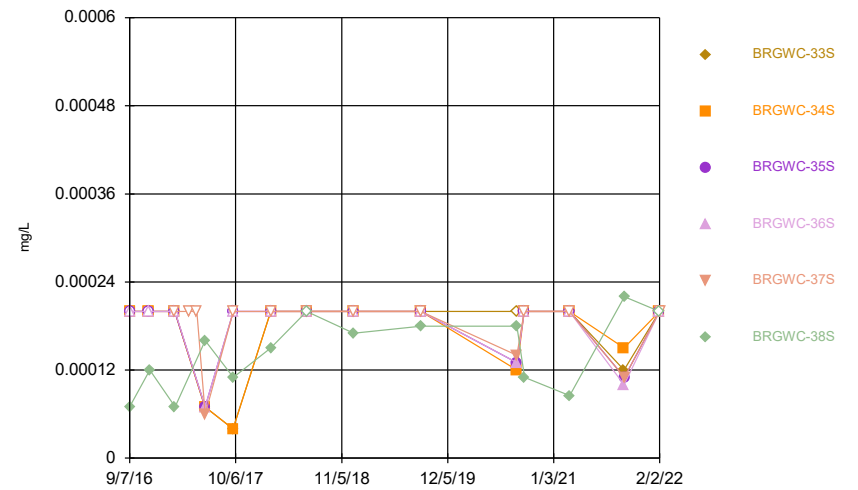
Constituent: Lithium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



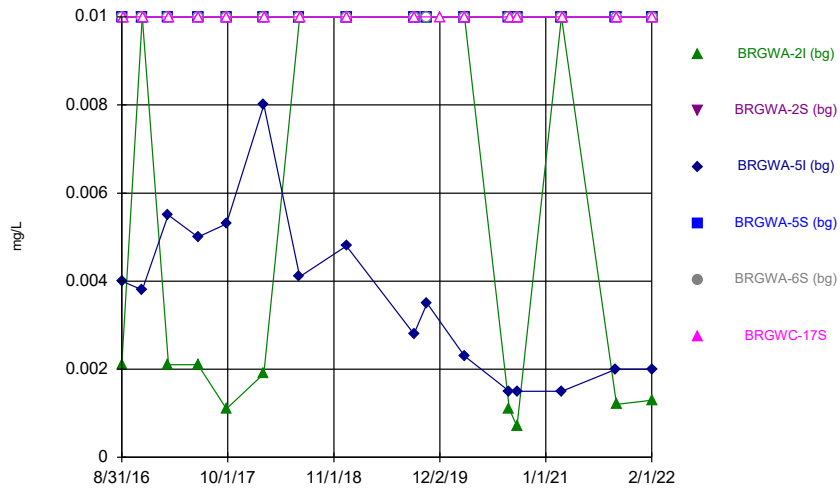
Constituent: Mercury Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



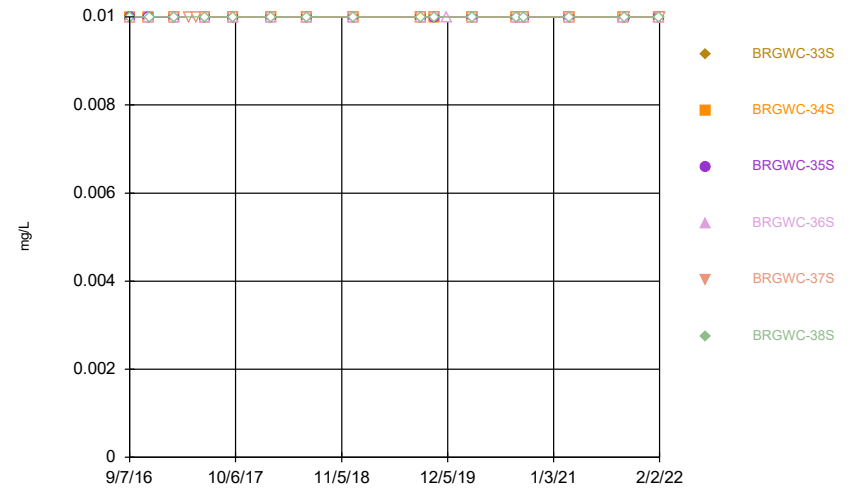
Constituent: Mercury Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



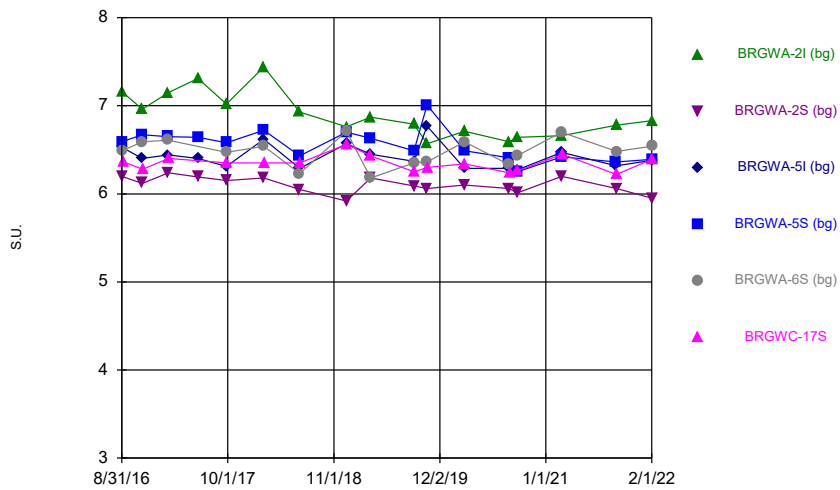
Constituent: Molybdenum Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



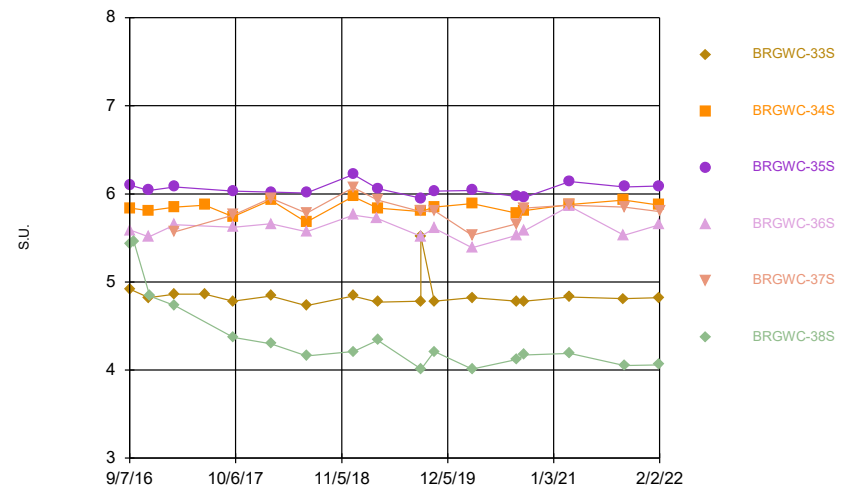
Constituent: Molybdenum Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



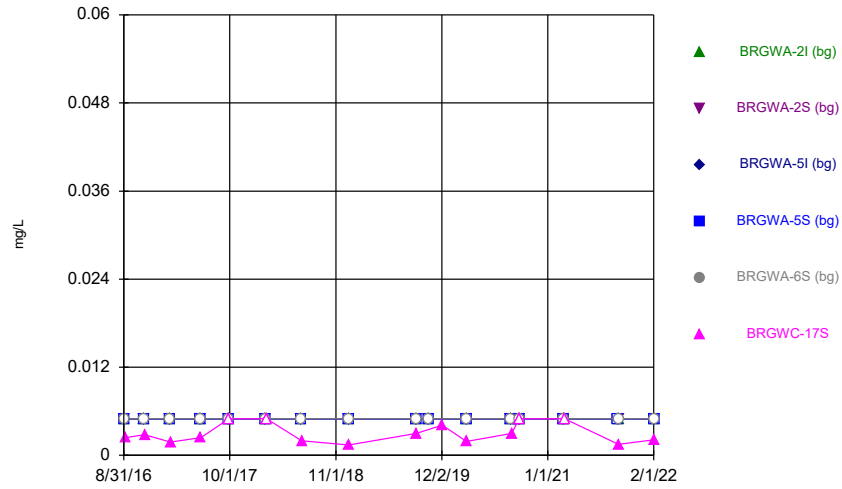
Constituent: pH, Field Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



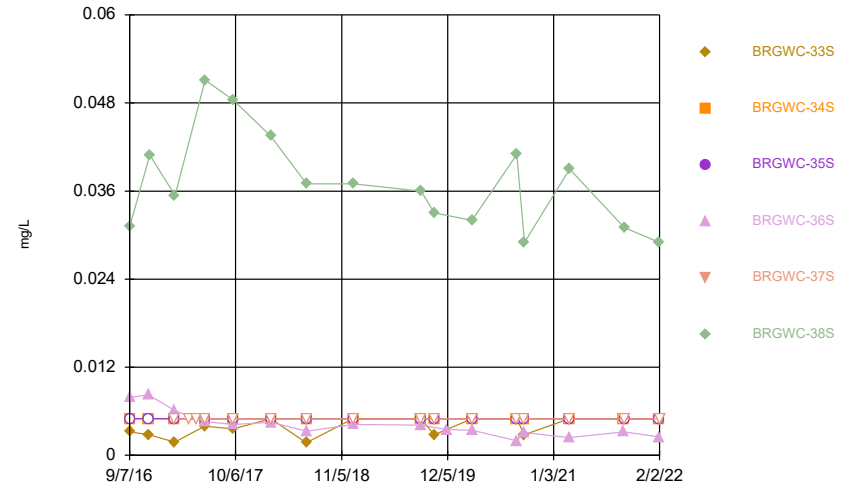
Constituent: pH, Field Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



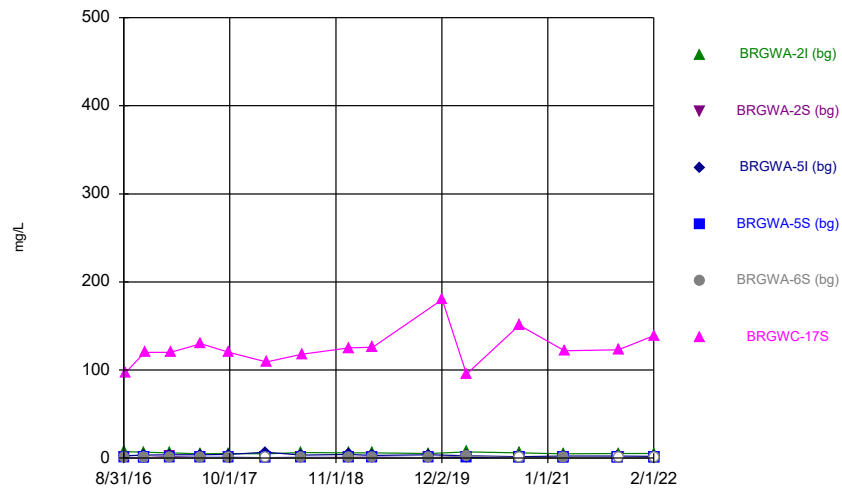
Constituent: Selenium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



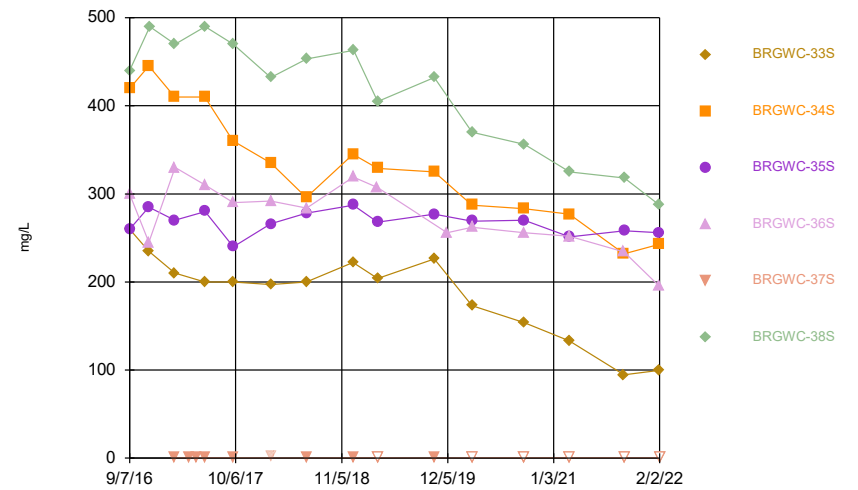
Constituent: Selenium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



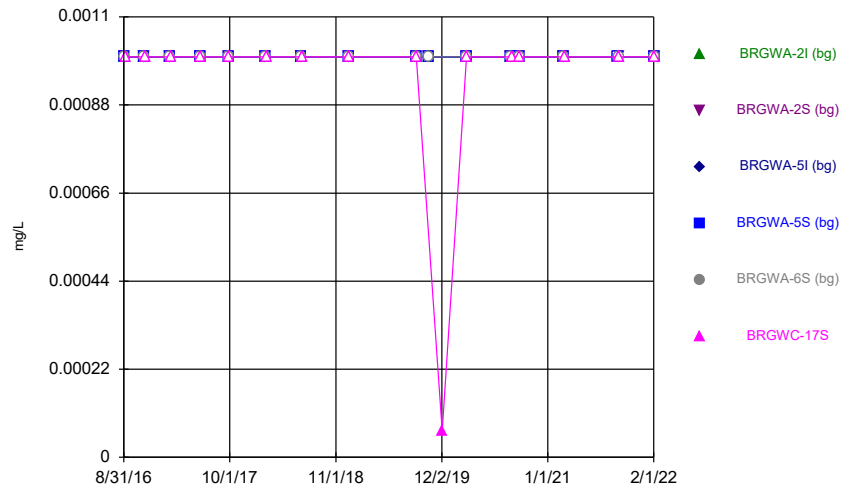
Constituent: Sulfate Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



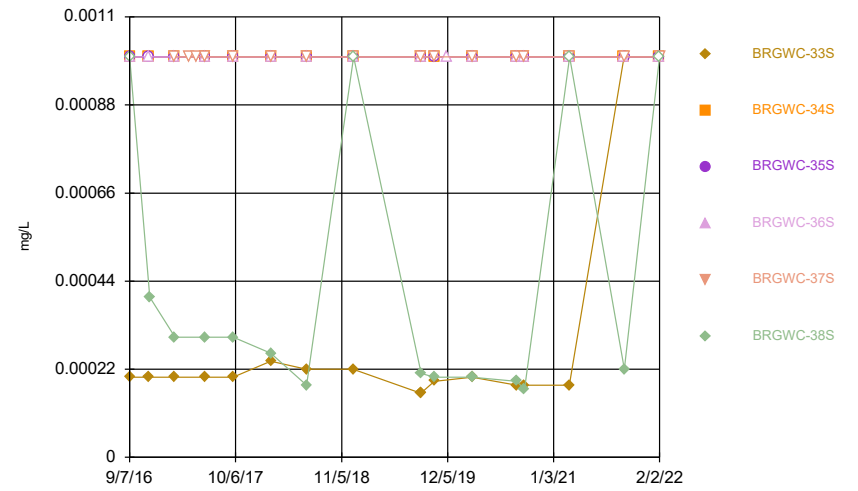
Constituent: Sulfate Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



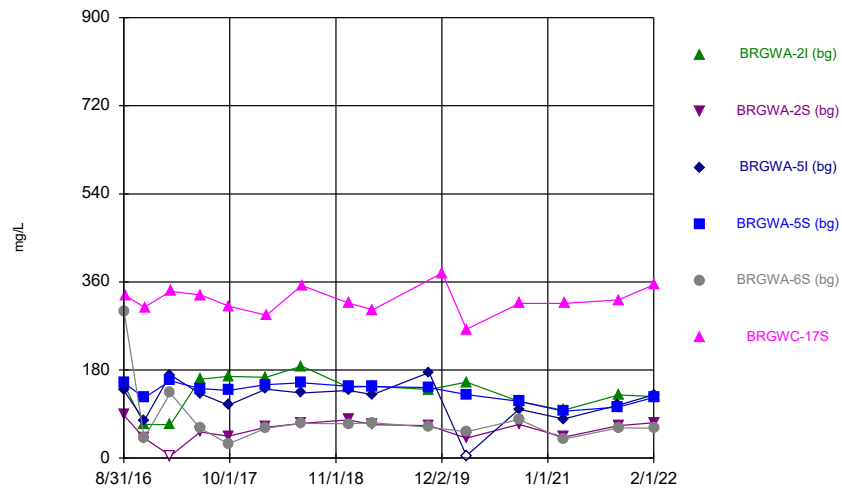
Constituent: Thallium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



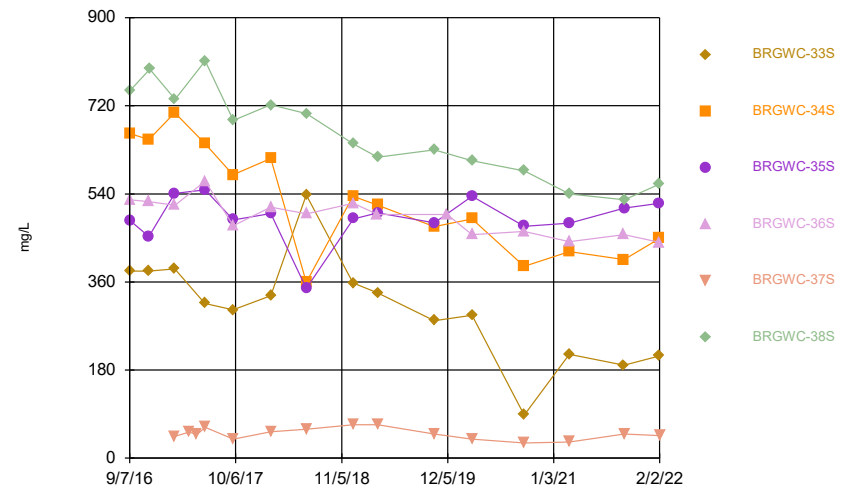
Constituent: Thallium Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/3/2022 8:22 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003		<0.003	<0.003		<0.003
9/8/2016		<0.003				
11/17/2016	<0.003	<0.003	<0.003			
11/18/2016				0.0016 (J)		
11/21/2016						0.0009 (J)
2/22/2017	<0.003	<0.003	<0.003			
2/23/2017				<0.003	<0.003	<0.003
4/17/2017					0.0004 (J)	
5/15/2017					<0.003	
6/14/2017	<0.003	<0.003				
6/15/2017			<0.003	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/27/2017	<0.003	<0.003				
9/28/2017			<0.003	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/27/2018	<0.003	<0.003	<0.003			
6/28/2018				<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						<0.003
8/27/2019	<0.003					
8/28/2019	<0.003	<0.003	<0.003	0.00035 (J)	<0.003	
8/29/2019						<0.003
10/16/2019	<0.003	<0.003	<0.003		<0.003	<0.003
12/3/2019				0.00049 (J)		
3/5/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	<0.003	<0.003	<0.003	
9/17/2020						<0.003
3/3/2021	<0.003	<0.003		<0.003	<0.003	
3/4/2021			<0.003			<0.003
9/22/2021	<0.003	<0.003		<0.003		
9/23/2021			<0.003		<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003		<0.003
2/2/2022					<0.003	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	<0.005	<0.005	<0.005	<0.005		
9/1/2016					<0.005	
9/7/2016						<0.005
11/15/2016				<0.005	<0.005	
11/16/2016	<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				
2/22/2017						<0.005
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005	
6/13/2017		<0.005				
6/15/2017						0.0006 (J)
9/26/2017	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)	
9/28/2017						<0.005
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/15/2018						<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005	
6/27/2018						<0.005
12/18/2018	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)	
12/19/2018						<0.005
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
8/28/2019						0.00073 (J)
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005	
12/3/2019						0.00058 (J)
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0033 (J)
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
8/19/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
9/16/2020						<0.005
3/1/2021	<0.005				<0.005	
3/2/2021		<0.005	<0.005	<0.005		
3/4/2021						<0.005
9/21/2021			<0.005	<0.005		
9/22/2021	<0.005	<0.005			<0.005	<0.005
2/1/2022	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.005		<0.005	<0.005		0.0026 (J)
9/8/2016		<0.005				
11/17/2016	<0.005	<0.005	<0.005			
11/18/2016				<0.005		
11/21/2016						0.0034 (J)
2/22/2017	<0.005	<0.005	<0.005			
2/23/2017				<0.005	<0.005	0.003 (J)
4/17/2017					<0.005	
5/15/2017					<0.005	
6/14/2017	0.0006 (J)	<0.005				
6/15/2017			0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)
9/27/2017	<0.005	<0.005				
9/28/2017			<0.005	<0.005	<0.005	0.0046 (J)
2/15/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
6/27/2018	<0.005	<0.005	<0.005			
6/28/2018				<0.005 (X)	<0.005 (X)	<0.005 (X)
12/18/2018	<0.005 (X)	<0.005				
12/19/2018			<0.005	<0.005	<0.005	
12/20/2018						0.00098 (J)
8/27/2019	<0.005					
8/28/2019	<0.005	<0.005	0.00044 (J)	0.00045 (J)	0.00038 (J)	
8/29/2019						0.0013 (J)
10/16/2019	0.00056 (J)	<0.005	0.0004 (J)		0.00078 (J)	0.0024 (J)
12/3/2019				0.001 (J)		
3/5/2020	<0.005	<0.005	<0.005	<0.005	0.00044 (J)	0.0011 (J)
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)
9/16/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
9/17/2020						0.0015 (J)
3/3/2021	<0.005	<0.005		<0.005	<0.005	
3/4/2021			<0.005			0.0029 (J)
9/22/2021	<0.005	<0.005		<0.005		
9/23/2021			<0.005		<0.005	0.002 (J)
2/1/2022	<0.005	<0.005	<0.005	<0.005		<0.005
2/2/2022					<0.005	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495		
9/1/2016					0.0142	
9/7/2016						0.0377
11/15/2016				0.0512	0.0126	
11/16/2016	0.0147	0.0102	0.0365			
11/17/2016						0.0405
2/20/2017			0.0336	0.0586	0.0142	
2/21/2017	0.0109	0.0094 (J)				
2/22/2017						0.0392
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134	
6/13/2017		0.0094 (J)				
6/15/2017						0.0364
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133	
9/28/2017						0.0408
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145	
2/15/2018						0.0396
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014	
6/27/2018						0.041
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013	
12/19/2018						0.038
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013	
8/28/2019						0.044
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013	
12/3/2019						0.043
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.036
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014	
8/19/2020						0.047
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013	
9/16/2020						0.044
3/1/2021	0.0074				0.016	
3/2/2021		0.0094	0.023	0.037		
3/4/2021						0.039
9/21/2021			0.025	0.038		
9/22/2021	0.0075	0.0097			0.014	0.043
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0214		0.101	0.0674		0.044
9/8/2016		0.0415				
11/17/2016	0.0211	0.04	0.0808			
11/18/2016				0.0546		
11/21/2016						0.0428 (J)
2/22/2017	0.0243	0.0415	0.0701			
2/23/2017				0.0489	0.0229	0.0338
4/17/2017					0.0227	
5/15/2017					0.0227	
6/14/2017	0.0218	0.0341				
6/15/2017			0.0518	0.0415	0.0218	0.0239
9/27/2017	0.0219	0.0347				
9/28/2017			0.047	0.0397	0.0222	0.0247
2/15/2018	0.0248	0.0346	0.0485	0.038	0.0243	0.0215
6/27/2018	0.023	0.028	0.046			
6/28/2018				0.035	0.023	0.018
12/18/2018	0.023	0.029				
12/19/2018			0.04	0.035	0.024	
12/20/2018						0.017
8/27/2019	0.02					
8/28/2019	0.02	0.026	0.039	0.034	0.027	
8/29/2019						0.016
10/16/2019	0.019	0.022	0.037		0.024	0.015
12/3/2019				0.031		
3/5/2020	0.022	0.025	0.039	0.033	0.025	0.016
8/19/2020	0.02	0.024	0.04	0.037	0.026	0.016
9/16/2020	0.019	0.023	0.033	0.03	0.024	
9/17/2020						0.014
3/3/2021	0.02	0.024		0.031	0.024	
3/4/2021			0.034			0.015
9/22/2021	0.019	0.021		0.028		
9/23/2021			0.036		0.027	0.014
2/1/2022	0.023	0.024	0.033	0.029		0.015
2/2/2022					0.025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0019 (J)		9E-05 (J)	<0.0005		0.0079
9/8/2016		0.0001 (J)				
9/23/2016						0.0096 (R)
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)			
11/18/2016				0.0001 (J)		
11/21/2016						0.0092
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)			
2/23/2017				0.0001 (J)	<0.0005	0.01
4/17/2017					<0.0005	
5/15/2017					<0.0005	
6/14/2017	0.0019 (J)	<0.0005				
6/15/2017			0.0001 (J)	9E-05 (J)	<0.0005	0.0104
9/27/2017	0.0017 (J)	0.0001 (J)				
9/28/2017			0.0001 (J)	0.0001 (J)	<0.0005	0.0098
2/15/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.011 (J)
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)			
6/28/2018				8.1E-05 (J)	<0.0005	0.0085
12/18/2018	0.0021 (J)	0.00012 (J)				
12/19/2018			<0.0005 (X)	<0.0005 (X)	<0.0005	
12/20/2018						0.0092
8/27/2019	0.0019 (J)					
8/28/2019	0.0019 (J)	0.00014 (J)	0.00016 (J)	0.00011 (J)	<0.0005	
8/29/2019						0.0088
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		<0.0005	0.0079
10/17/2019				<0.0005		
12/3/2019				9.7E-05 (J)		
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	<0.0005	0.0082
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	<0.0005	0.0079
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)	<0.0005	
9/17/2020						0.0073
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)	<0.0005	
3/4/2021			0.00012 (J)			0.0077
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)		
9/23/2021			0.00016 (J)		<0.0005	0.0071
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)		0.0072
2/2/2022					<0.0005	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	1.15		1.06	0.725		1.73
9/8/2016		1.89				
11/17/2016	1.08	2.17	0.967			
11/18/2016				0.831		
11/21/2016						2.02
2/22/2017	1.44	2.09	1.35			
2/23/2017				0.949	<0.04	1.77
4/17/2017					<0.04	
5/15/2017					<0.04	
6/14/2017	1.16	2.45				
6/15/2017			1.49	0.961	<0.04	1.78
9/27/2017	1.04	2.4				
9/28/2017			1.27	0.948	<0.04	1.45
2/15/2018	1.22	2.55	1.58	1.11	<0.04	2.09
6/27/2018	0.96 (J+X)	2.2 (J+X)	1.7 (J+X)			
6/28/2018				0.89	<0.04 (X)	1.5
12/18/2018	1.2	2.2				
12/19/2018			1.8	1.1	<0.04	
12/20/2018						1.7
3/19/2019				1		
3/20/2019	1.3	2.3	1.7		0.004 (J)	1.5
10/16/2019	1.1	2.3	2.2		0.0055 (J)	1.5
10/17/2019				1.1		
12/3/2019				1		
3/5/2020	1.5	2.1	1.9	1.1	0.0076 (J)	1.6
9/16/2020	1.1	2.2	1.9	0.99	0.0062 (J)	
9/17/2020						1.4
3/3/2021	1.1	2.1		1	<0.04	
3/4/2021			1.9			1.5
9/22/2021	1.1	2.2		1.1		
9/23/2021			2		<0.04	1.4
2/1/2022	1.1	2.2	2.1	1		1.6
2/2/2022					0.032 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0005 (J)		<0.0005	8E-05 (J)		0.0004 (J)
9/8/2016		<0.0005				
11/17/2016	0.0005 (J)	0.0009 (J)	<0.0005			
11/18/2016				<0.0005		
11/21/2016						0.0005 (J)
2/22/2017	0.0006 (J)	0.0005 (J)	<0.0005			
2/23/2017				0.0001 (J)	<0.0005	0.0007 (J)
4/17/2017					<0.0005	
5/15/2017					<0.0005	
6/14/2017	0.0004 (J)	0.0004 (J)				
6/15/2017			<0.0005	<0.0005	<0.0005	0.0006 (J)
9/27/2017	0.0004 (J)	0.0007 (J)				
9/28/2017			<0.0005	<0.0005	<0.0005	0.0007 (J)
2/15/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00069 (J)
6/27/2018	0.00038 (J)	0.00017 (J)	<0.0005			
6/28/2018				<0.0005	<0.0005	0.00056 (J)
12/18/2018	0.00046 (J)	0.00023 (J)				
12/19/2018			<0.0005	<0.0005 (X)	<0.0005	
12/20/2018						<0.0005 (X)
8/27/2019	0.00032 (J)					
8/28/2019	0.00032 (J)	0.00025 (J)	<0.0005	<0.0005	<0.0005	
8/29/2019						0.00053 (J)
10/16/2019	0.00039 (J)	0.0004 (J)	<0.0005		<0.0005	0.00057 (J)
10/17/2019				<0.0005		
12/3/2019				<0.0005		
3/5/2020	0.00038 (J)	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00059 (J)
8/19/2020	0.00029 (J)	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00056 (J)
9/16/2020	0.00032 (J)	0.00017 (J)	<0.0005	<0.0005	<0.0005	
9/17/2020						0.0005 (J)
3/3/2021	0.00022 (J)	0.00015 (J)		<0.0005	<0.0005	
3/4/2021			<0.0005			0.00042 (J)
9/22/2021	0.00019 (J)	0.00033 (J)		<0.0005		
9/23/2021			<0.0005		<0.0005	0.00048 (J)
2/1/2022	0.00023 (J)	0.00012 (J)	<0.0005	<0.0005		0.00058
2/2/2022					<0.0005	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	12.6	4.09	13.5	19.6		
9/1/2016					3.3	
9/7/2016						26.3
11/15/2016				21.7	3.44	
11/16/2016	12.1	4.25	14.9			
11/17/2016						31.8
2/20/2017			13.9	21.1	3.52	
2/21/2017	11.4	4.02				
2/22/2017						33.5
6/12/2017	9.34		13.7	21.5	3.11	
6/13/2017		3.84				
6/15/2017						29
9/26/2017	14.3	3.31	14.4	24	3.15	
9/28/2017						34.1
2/13/2018	<25	3.94	<25	<25	3.65	
2/15/2018						33.8
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3	
6/27/2018						34.1
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5	
12/19/2018						33.1
3/19/2019	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6	31.6
10/15/2019	15.1	3.7	14.4	20	3.5	
12/3/2019						37.7
3/3/2020	20	4	14.9	23.2	5	29.7
9/15/2020	14.1	3.9	12.7	16.8	3.7	
9/16/2020						37.9
3/1/2021	15.4				4.2	
3/2/2021		4	13.2	16.8		
3/4/2021						41.2
9/21/2021			14.1	19.1		
9/22/2021	15.9	4.3			4.1	36.4
2/1/2022	14.4	4.4	14.5	19.1	4.2	41.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	53.4		54.1	50.6		45.9
9/8/2016		97.3				
11/17/2016	41.3	97.6	62.6			
11/18/2016				53.9		
11/21/2016						46.4
2/22/2017	53.1	106	64.6			
2/23/2017				51	3.26	43.5
4/17/2017					3.23	
5/15/2017					2.97 (B-01)	
6/14/2017	47.1	98				
6/15/2017			61.3	53.8	3.15	45.3
9/27/2017	49.5	95.8				
9/28/2017			60.8	51.8	3.26	45.1
2/15/2018	50.9	100	56.6	50.1	3.39	45.3
6/27/2018	55.1	90.1	66.2			
6/28/2018				51	3.1	45.9
12/18/2018	52.7	85.1				
12/19/2018			64.4	57.1	3.6	
12/20/2018						41.8
3/19/2019				49.5		
3/20/2019	51.4	82	61.8		3.3	38.2
10/16/2019	46.5	78.2	61.2		3.4	38.4
12/3/2019				47.8		
3/5/2020	48.1	89.6	69.9	51.7	3.7	39.8
9/16/2020	37.9	77.7	61.8	45.9	3.2	
9/17/2020						33.1
3/3/2021	37.5	88.6		53	3.6	
3/4/2021			71.8			41
9/22/2021	28.9	76.9		53.7		
9/23/2021			70.5		3.7	36.8
2/1/2022	34.3	81.7	73.8	49.7		37.8
2/2/2022					3.7	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	2.3	2	4.4	3.6		
9/1/2016					2.5	
9/7/2016						3.7
11/15/2016				4	2.3	
11/16/2016	2	1.8	4.4			
11/17/2016						4.05 (D)
2/20/2017			4.8	3.9	2.4	
2/21/2017	2	1.8				
2/22/2017						3.6
6/12/2017	2.1		4.2	3.8	2.2	
6/13/2017		1.7				
6/15/2017						3.7
9/26/2017	2	1.8	4.4	4.1	2.3	
9/28/2017						4.1
2/13/2018	2.1	1.7	4.7	4.1	2.3	
2/15/2018						5.3
6/26/2018	2.4	2.2	4.5	4.1	2.6	
6/27/2018						4.2
12/18/2018	1.8	1.9	4.5	3.8	2.3	
12/19/2018						4.9 (J-X)
3/19/2019	2.45 (D)	2	4.5	4.2	2.6	5
10/15/2019	2.2	1.9	4.2	3.7	2.4	
12/3/2019						4.8
3/3/2020	1.9	1.9	3.9	3.6	2.9	3.8
9/15/2020	1.9	1.7	3.7	3.7	2.3	
9/16/2020						4.2
3/1/2021	1.8				2.1	
3/2/2021		1.7	3.8	3.7		
3/4/2021						4.6
9/21/2021			3.2	3.2		
9/22/2021	1.7	1.5			2.1	4.6
2/1/2022	1.8	1.6	3.5	3.4	2.1	4.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	5.3		5.8	3.1		5.8
9/8/2016		7.2				
11/17/2016	5.45 (D)	7.8 (D)	6.1 (D)			
11/18/2016				3.95 (D)		
11/21/2016						5.05 (D)
2/22/2017	0.12 (J)	7.1	5.6			
2/23/2017				3.2	2.1	4.1
4/17/2017					1.8	
5/15/2017					1.8	
6/14/2017	4.5	7.3				
6/15/2017			5.8	4	1.9	4.8
9/27/2017	5.4	7.6				
9/28/2017			6.2	4.6	1.9	6.7
2/15/2018	6.3	7.2	6.2	5.4	2.3	8
6/27/2018	4.5	7.1	5.9			
6/28/2018				9 (J-X)	2.1 (J-X)	5.5 (J-X)
12/18/2018	6.1	7.1				
12/19/2018			6.2 (J-X)	6.2 (J-X)	1.9 (J-X)	
12/20/2018						8 (J-X)
3/19/2019				7.1		
3/20/2019	6.2	6.9	6.6		2.3	6.6
10/16/2019	5.4	7.3	6.6		2.3	6.4
12/3/2019				7.7		
3/5/2020	4.8	6.4	5.8	7.6	1.8	5.8
9/16/2020	4.1	6.6	6	7.9	1.8	
9/17/2020						6.1
3/3/2021	3.9	6.4		8.1	1.9	
3/4/2021			5.8			5.6
9/22/2021	2.7	5.6		7.1		
9/23/2021			6.1		1.9	6
2/1/2022	13.1	5.9	6	7.6		5.8
2/2/2022					1.8	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)		
9/1/2016					0.0147	
9/7/2016						0.01 (J)
11/15/2016				0.003 (J)	0.0154 (B)	
11/16/2016	<0.005	0.0029 (J)	0.0051 (J)			
11/17/2016						0.0185
2/20/2017			0.0049 (J)	0.0047 (J)	0.014	
2/21/2017	<0.005	0.0036 (J)				
2/22/2017						0.0122
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016	
6/13/2017		0.0038 (J)				
6/15/2017						0.0117
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144	
9/28/2017						0.0114
2/13/2018	<0.005	<0.005	<0.005	<0.005	0.0144	
2/15/2018						0.011
6/26/2018	<0.005	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015	
6/27/2018						0.0098 (J)
12/18/2018	<0.005	0.012	0.0032 (J)	0.0054 (J)	0.015	
12/19/2018						0.0095 (J)
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015	
8/28/2019						0.013
10/15/2019	<0.005	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014	
12/3/2019						0.011
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0081 (J)
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015	
8/19/2020						0.012
9/15/2020	<0.005	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014	
9/16/2020						0.012
3/1/2021	<0.005				0.011	
3/2/2021		0.0074	0.0064	0.0044 (J)		
3/4/2021						0.01
9/21/2021			0.0064	0.0044 (J)		
9/22/2021	<0.005	0.0091			0.014	0.0091
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.013

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.005		0.0019 (J)	0.0073 (J)		0.0014 (J)
9/8/2016		<0.005				
11/17/2016	<0.005	<0.005	0.0024 (J)			
11/18/2016				0.008 (J)		
11/21/2016						0.003 (J)
2/22/2017	<0.005	<0.005	0.004 (J)			
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)
4/17/2017					0.0018 (J)	
5/15/2017					0.0014 (J)	
6/14/2017	<0.005	<0.005				
6/15/2017			0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)
9/27/2017	<0.005	<0.005				
9/28/2017			0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)
2/15/2018	<0.005	<0.005	<0.005	0.0086 (J)	<0.005	0.0044 (J)
6/27/2018	<0.005	<0.005	0.0062 (J)			
6/28/2018				0.0076 (J)	<0.005	0.0041 (J)
12/18/2018	<0.005	<0.005				
12/19/2018			0.0073 (J)	0.0085 (J)	<0.005	
12/20/2018						0.0041 (J)
8/27/2019	<0.005					
8/28/2019	<0.005	<0.005	0.0071 (J)	0.0078 (J)	0.0017 (J)	
8/29/2019						0.0044 (J)
10/16/2019	0.00049 (J)	<0.005	0.0064 (J)		0.0014 (J)	0.0038 (J)
12/3/2019				0.007 (J)		
3/5/2020	<0.005	<0.005	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)
8/19/2020	<0.005	<0.005	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)
9/16/2020	<0.005	<0.005	0.0058 (J)	0.0064 (J)	0.0018 (J)	
9/17/2020						0.0042 (J)
3/3/2021	<0.005	<0.005		0.0067	0.0014 (J)	
3/4/2021			0.0053			0.004 (J)
9/22/2021	<0.005	<0.005		0.0065		
9/23/2021			0.0065		0.0016 (J)	0.004 (J)
2/1/2022	<0.005	<0.005	0.0056	0.0068		0.0035 (J)
2/2/2022					0.0015 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.005		
9/1/2016					<0.005	
9/7/2016						<0.005
11/15/2016				<0.005	<0.005	
11/16/2016	0.0006 (J)	0.003 (J)	<0.01 (o)			
11/17/2016						<0.005
2/20/2017			0.0012 (J)	0.0009 (J)	<0.005	
2/21/2017	<0.005	0.0028 (J)				
2/22/2017						<0.005
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)	
6/13/2017		0.0025 (J)				
6/15/2017						<0.005
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)	
9/28/2017						<0.005
2/13/2018	<0.005	<0.005	<0.01 (o)	<0.005	<0.005	
2/15/2018						<0.005
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.005	
6/27/2018						<0.005
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.005	<0.005	
12/19/2018						<0.005
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.005	
8/28/2019						<0.005
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.005	<0.005	
10/17/2019						<0.005
12/3/2019						<0.005
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.005	0.0011 (J)	<0.005
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.005	0.00061 (J)	
8/19/2020						<0.005
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.005	<0.005	
9/16/2020						<0.005
3/1/2021	<0.005				<0.005	
3/2/2021		0.001 (J)	0.00053 (J)	<0.005		
3/4/2021						<0.005
9/21/2021			0.00071 (J)	<0.005		
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	<0.005
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.005	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0612		0.0023 (J)	<0.005		0.236
9/8/2016		0.0029 (J)				
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)			
11/18/2016				<0.005		
11/21/2016						0.298
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)			
2/23/2017				<0.005	<0.005	0.277
4/17/2017					<0.005	
5/15/2017					<0.005	
6/14/2017	0.0557	0.0036 (J)				
6/15/2017			0.0004 (J)	<0.005	<0.005	0.262
9/27/2017	0.049	0.0028 (J)				
9/28/2017			0.0003 (J)	<0.005	<0.005	0.279
2/15/2018	0.0536	<0.005	<0.005	<0.005	<0.005	0.279
6/27/2018	0.054	0.0041 (J)	<0.005			
6/28/2018				<0.005	<0.005	0.23
12/18/2018	0.049	0.0032 (J)				
12/19/2018			<0.005	<0.005	<0.005	
12/20/2018						0.25
8/27/2019	0.045					
8/28/2019	0.045	0.0037 (J)	<0.005	<0.005	<0.005	
8/29/2019						0.21
10/16/2019	0.042	0.0043 (J)	<0.005		<0.005	0.21
10/17/2019				<0.005		
12/3/2019				<0.005		
3/5/2020	0.037	0.0031 (J)	<0.005	<0.005	<0.005	0.22
8/19/2020	0.036	0.0041 (J)	<0.005	<0.005	<0.005	0.22
9/16/2020	0.034	0.0042 (J)	<0.005	<0.005	<0.005	
9/17/2020						0.2
3/3/2021	0.028	0.0046 (J)		<0.005	<0.005	
3/4/2021			<0.005			0.2
9/22/2021	0.024	0.0075		<0.005		
9/23/2021			<0.005		<0.005	0.17
2/1/2022	0.027	0.0044 (J)	<0.005	<0.005		0.18
2/2/2022					<0.005	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.19 (J)		0.34	0.18 (J)		0.66
9/8/2016		0.17 (J)				
11/17/2016	0.12 (J)	0.06 (J)	0.14 (J)			
11/18/2016				0.03 (J)		
11/21/2016						0.9 (D)
2/22/2017	0.21 (J)	0.17 (J)	0.09 (J)			
2/23/2017				0.07 (J)	0.1 (J)	0.75
4/17/2017					0.08 (J)	
5/15/2017					0.02 (J)	
6/14/2017	0.18 (J)	0.1 (J)				
6/15/2017			0.03 (J)	0.01 (J)	0.03 (J)	0.77
9/27/2017	0.42	0.4				
9/28/2017			<0.1	<0.1	<0.1	0.8
2/15/2018	0.42	<0.1	<0.1	<0.1	<0.1	0.82
6/27/2018	0.32	0.21 (J)	0.22 (J)			
6/28/2018				0.51 (J+X)	<0.1	1.5 (J+X)
12/18/2018	0.28 (J)	0.12 (J)				
12/19/2018			0.11 (J)	<0.1	0.094 (J)	
12/20/2018						0.68
3/19/2019				<0.1		
3/20/2019	0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95
8/27/2019	0.11 (J)					
8/28/2019	0.11 (J)	0.057 (J)	0.056 (J)	<0.1	<0.1	
8/29/2019						0.9
10/16/2019	0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61
12/3/2019				0.15 (J)		
3/5/2020	0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92
8/19/2020	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95
9/16/2020	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1	
9/17/2020						0.68
3/3/2021	0.069 (J)	0.071 (J)		<0.1	<0.1	
3/4/2021			0.076 (J)			0.83
9/22/2021	0.068 (J)	0.1		0.054 (J)		
9/23/2021			0.073 (J)		<0.1	0.85
2/1/2022	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95
2/2/2022					<0.1	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0002 (J)		0.0001 (J)	<0.001		0.0004 (J)
9/8/2016		<0.001				
11/17/2016	0.0002 (J)	0.0001 (J)	0.0002 (J)			
11/18/2016				<0.001		
11/21/2016						0.0005 (J)
2/22/2017	0.0001 (J)	0.0003 (J)	0.0001 (J)			
2/23/2017				<0.001	<0.001	0.0005 (J)
4/17/2017					0.0001 (J)	
5/15/2017					<0.001	
6/14/2017	9E-05 (J)	<0.001				
6/15/2017			<0.001	<0.001	<0.001	0.0004 (J)
9/27/2017	7E-05 (J)	9E-05 (J)				
9/28/2017			<0.001	<0.001	0.0001 (J)	0.0004 (J)
2/15/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00047 (J)
6/27/2018	<0.001	<0.001	<0.001			
6/28/2018				<0.001	<0.001	0.00036 (J)
12/18/2018	<0.001	<0.001				
12/19/2018			<0.001	<0.001	<0.001	
12/20/2018						0.00039 (J)
8/27/2019	0.00013 (J)					
8/28/2019	0.00013 (J)	<0.001	<0.001	<0.001	<0.001	
8/29/2019						0.00035 (J)
10/16/2019	8.8E-05 (J)	<0.001	<0.001		<0.001	0.00035 (J)
12/3/2019				<0.001		
3/5/2020	8.7E-05 (J)	<0.001	<0.001	<0.001	<0.001	0.00041 (J)
8/19/2020	6E-05 (J)	<0.001	<0.001	4.7E-05 (J)	<0.001	0.00031 (J)
9/16/2020	6.3E-05 (J)	<0.001	0.00012 (J)	<0.001	<0.001	
9/17/2020						0.00032 (J)
3/3/2021	5.8E-05 (J)	<0.001		<0.001	<0.001	
3/4/2021			<0.001			0.00034 (J)
9/22/2021	<0.001	<0.001		<0.001		
9/23/2021			<0.001		<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001		<0.001
2/2/2022					<0.001	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.0268 (J)	<0.03	<0.03	<0.03		
9/1/2016					0.003 (J)	
9/7/2016						<0.03
11/15/2016				<0.03	0.0033 (J)	
11/16/2016	0.0201 (J)	<0.03	0.0033 (J)			
11/17/2016						<0.03
2/20/2017			<0.03	<0.03	0.0025 (J)	
2/21/2017	0.0128 (J)	<0.03				
2/22/2017						<0.03
6/12/2017	0.0245 (J)		0.0019 (J)	<0.03	0.0027 (J)	
6/13/2017		<0.03				
6/15/2017						<0.03
9/26/2017	0.0549	<0.03	0.0022 (J)	<0.03	0.0023 (J)	
9/28/2017						<0.03
2/13/2018	0.0595	<0.03	0.0041 (J)	<0.03	0.0027 (J)	
2/15/2018						<0.03
6/26/2018	0.089	<0.03	0.0025 (J)	<0.03	0.0029 (J)	
6/27/2018						<0.03
12/18/2018	0.024 (J)	<0.03	0.0032 (J)	<0.03	0.0026 (J)	
12/19/2018						<0.03
8/27/2019	0.035	<0.03	0.0019 (J)	<0.03	0.0028 (J)	
8/28/2019						0.00097 (J)
10/15/2019	0.028 (J)	<0.03	0.002 (J)	<0.03	0.0024 (J)	
12/3/2019						0.001 (J)
3/3/2020	0.055	<0.03	0.0013 (J)	<0.03	0.0026 (J)	<0.03
8/18/2020	0.054	<0.03	0.00095 (J)	<0.03	0.0026 (J)	
8/19/2020						0.001 (J)
9/15/2020	0.033	<0.03	0.001 (J)	<0.03	0.0027 (J)	
9/16/2020						0.00096 (J)
3/1/2021	0.027 (J)				0.0036 (J)	
3/2/2021		<0.03	0.00081 (J)	<0.03		
3/4/2021						0.00086 (J)
9/21/2021			0.0012 (J)	<0.03		
9/22/2021	0.021 (J)	<0.03			0.0035 (J)	0.0011 (J)
2/1/2022	0.023 (J)	<0.03	0.0011 (J)	<0.03	0.0029 (J)	0.00096 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0092 (J)		0.0021 (J)	0.0024 (J)		0.0193 (J)
9/8/2016		<0.03				
11/17/2016	0.0097 (J)	<0.03	0.0022 (J)			
11/18/2016				0.0026 (J)		
11/21/2016						0.0223 (J)
2/22/2017	0.0106 (J)	<0.03	0.0023 (J)			
2/23/2017				0.0026 (J)	<0.03	0.0229 (J)
4/17/2017					<0.03	
5/15/2017					<0.03	
6/14/2017	0.0097 (J)	<0.03				
6/15/2017			0.0023 (J)	0.0026 (J)	<0.03	0.0227 (J)
9/27/2017	0.0099 (J)	<0.03				
9/28/2017			0.0021 (J)	0.0025 (J)	<0.03	0.023 (J)
2/15/2018	0.0106 (J)	<0.03	0.0021 (J)	<0.03	<0.03	0.0254 (J)
6/27/2018	0.01 (J)	<0.03	0.0021 (J)			
6/28/2018				0.0022 (J)	<0.03	0.021 (J)
12/18/2018	0.011 (J)	<0.03				
12/19/2018			0.0021 (J)	0.0026 (J)	<0.03	
12/20/2018						0.022 (J)
8/27/2019	0.01 (J)					
8/28/2019	0.01 (J)	0.0009 (J)	0.0021 (J)	0.0025 (J)	<0.03	
8/29/2019						0.021 (J)
10/16/2019	0.0098 (J)	0.00078 (J)	0.0022 (J)		<0.03	0.02 (J)
12/3/2019				0.0024 (J)		
3/5/2020	0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	<0.03	0.021 (J)
8/19/2020	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	<0.03	0.021 (J)
9/16/2020	0.0089 (J)	<0.03	0.002 (J)	0.0022 (J)	<0.03	
9/17/2020						0.02 (J)
3/3/2021	0.0085 (J)	0.00096 (J)		0.0024 (J)	<0.03	
3/4/2021			0.0021 (J)			0.021 (J)
9/22/2021	0.008 (J)	<0.03		0.0026 (J)		
9/23/2021			0.0022 (J)		<0.03	0.019 (J)
2/1/2022	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)		0.02 (J)
2/2/2022					<0.03	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.0002		<0.0002	<0.0002		7E-05 (J)
9/8/2016		<0.0002				
11/17/2016	<0.0002	<0.0002	<0.0002			
11/18/2016				<0.0002		
11/21/2016						0.00012 (J)
2/22/2017	<0.0002	<0.0002	<0.0002			
2/23/2017				<0.0002	<0.0002	7E-05 (J)
4/17/2017					<0.0002	
5/15/2017					<0.0002	
6/14/2017	7E-05 (J)	7E-05 (J)				
6/15/2017			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)
9/27/2017	4E-05 (J)	4E-05 (J)				
9/28/2017			<0.0002	<0.0002	<0.0002	0.00011 (J)
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015 (J)
6/27/2018	<0.0002	<0.0002	<0.0002			
6/28/2018				<0.0002	<0.0002	<0.0002 (X)
12/18/2018	<0.0002	<0.0002				
12/19/2018			<0.0002	<0.0002	<0.0002	
12/20/2018						0.00017 (J)
8/27/2019	<0.0002					
8/28/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/29/2019						0.00018 (J)
8/19/2020	<0.0002	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020						0.00011 (J)
3/3/2021	<0.0002	<0.0002		<0.0002	<0.0002	
3/4/2021			<0.0002			8.5E-05 (J)
9/22/2021	0.00012 (J)	0.00015 (J)		0.0001 (J)		
9/23/2021			0.00011 (J)		0.00011 (J)	0.00022
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/2/2022					<0.0002	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.0021 (J)	<0.01	0.004 (J)	<0.01		
9/1/2016					<0.01	
9/7/2016						<0.01
11/15/2016				<0.01	<0.01	
11/16/2016	<0.01	<0.01	0.0038 (J)			
11/17/2016						<0.01
2/20/2017			0.0055 (J)	<0.01	<0.01	
2/21/2017	0.0021 (J)	<0.01				
2/22/2017						<0.01
6/12/2017	0.0021 (J)		0.005 (J)	<0.01	<0.01	
6/13/2017		<0.01				
6/15/2017						<0.01
9/26/2017	0.0011 (J)	<0.01	0.0053 (J)	<0.01	<0.01	
9/28/2017						<0.01
2/13/2018	0.0019 (J)	<0.01	0.008 (J)	<0.01	<0.01	
2/15/2018						<0.01
6/26/2018	<0.01	<0.01	0.0041 (J)	<0.01	<0.01	
6/27/2018						<0.01
12/18/2018	<0.01	<0.01	0.0048 (J)	<0.01	<0.01	
12/19/2018						<0.01
8/27/2019	<0.01	<0.01	0.0028 (J)	<0.01	<0.01	
8/28/2019						<0.01
10/15/2019	<0.01	<0.01	0.0035 (J)	<0.01	<0.01	
12/3/2019						<0.01
3/3/2020	<0.01	<0.01	0.0023 (J)	<0.01	<0.01	<0.01
8/18/2020	0.0011 (J)	<0.01	0.0015 (J)	<0.01	<0.01	
8/19/2020						<0.01
9/15/2020	0.0007 (J)	<0.01	0.0015 (J)	<0.01	<0.01	
9/16/2020						<0.01
3/1/2021	<0.01				<0.01	
3/2/2021		<0.01	0.0015 (J)	<0.01		
3/4/2021						<0.01
9/21/2021			0.002 (J)	<0.01		
9/22/2021	0.0012 (J)	<0.01			<0.01	<0.01
2/1/2022	0.0013 (J)	<0.01	0.002 (J)	<0.01	<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.01		<0.01	<0.01		<0.01
9/8/2016		<0.01				
11/17/2016	<0.01	<0.01	<0.01			
11/18/2016				<0.01		
11/21/2016						<0.01
2/22/2017	<0.01	<0.01	<0.01			
2/23/2017				<0.01	<0.01	<0.01
4/17/2017					<0.01	
5/15/2017					<0.01	
6/14/2017	<0.01	<0.01				
6/15/2017			<0.01	<0.01	<0.01	<0.01
9/27/2017	<0.01	<0.01				
9/28/2017			<0.01	<0.01	<0.01	<0.01
2/15/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/27/2018	<0.01	<0.01	<0.01			
6/28/2018				<0.01	<0.01	<0.01
12/18/2018	<0.01	<0.01				
12/19/2018			<0.01	<0.01	<0.01	
12/20/2018						<0.01
8/27/2019	<0.01					
8/28/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
8/29/2019						<0.01
10/16/2019	<0.01	<0.01	<0.01		<0.01	<0.01
12/3/2019				<0.01		
3/5/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/19/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/16/2020	<0.01	<0.01	<0.01	<0.01	<0.01	
9/17/2020						<0.01
3/3/2021	<0.01	<0.01		<0.01	<0.01	
3/4/2021			<0.01			<0.01
9/22/2021	<0.01	<0.01		<0.01		
9/23/2021			<0.01		<0.01	<0.01
2/1/2022	<0.01	<0.01	<0.01	<0.01		<0.01
2/2/2022					<0.01	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	7.16	6.2	6.53	6.59		
9/1/2016					6.49	
9/7/2016						6.36
11/15/2016				6.67	6.59	
11/16/2016	6.96	6.12	6.4			
11/17/2016						6.28
2/20/2017			6.44	6.65	6.61	
2/21/2017	7.15	6.24				
2/22/2017						6.4
6/12/2017	7.31		6.4	6.64		
6/13/2017		6.19				
9/26/2017	7.02	6.15	6.31	6.58	6.47	
9/28/2017						6.35
2/13/2018	7.44	6.18	6.62	6.72	6.54	
2/15/2018						6.35
6/26/2018	6.93	6.05	6.29	6.43	6.23	
6/27/2018						6.35
12/18/2018	6.76	5.92	6.57	6.7	6.71	
12/19/2018						6.56
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.43
8/27/2019	6.79	6.09	6.37	6.49	6.35	
8/28/2019						6.25
10/15/2019	6.57	6.06	6.77	7.01	6.36	
10/17/2019						6.3
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.34
8/18/2020	6.59	6.06	6.29	6.41	6.33	
8/19/2020						6.24
9/15/2020	6.64	6.01	6.27	6.25	6.43	
9/16/2020						6.26
3/1/2021	6.66				6.7	
3/2/2021		6.2	6.47	6.42		
3/4/2021						6.45
9/21/2021			6.32	6.36		
9/22/2021	6.78	6.06			6.48	6.22
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.39

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	4.92		6.1	5.59		5.43
9/8/2016		5.84				
9/23/2016						5.46
11/17/2016	4.82	5.81	6.04			
11/18/2016				5.51		
11/21/2016						4.84
2/22/2017	4.86	5.85	6.08			
2/23/2017				5.65	5.57	4.73
6/14/2017	4.86	5.87				
9/27/2017	4.78	5.74				
9/28/2017			6.03	5.62	5.76	4.37
2/15/2018	4.84	5.93	6.02	5.66	5.95	4.3
6/27/2018	4.73	5.68	6.01			
6/28/2018				5.57	5.78	4.16
12/18/2018	4.84	5.97				
12/19/2018			6.22	5.76	6.07	
12/20/2018						4.21
3/19/2019				5.72		
3/20/2019	4.77	5.84	6.06		5.93	4.34
8/27/2019	4.78					
8/28/2019	5.52	5.8	5.95	5.52	5.8	
8/29/2019						4.01
10/16/2019	4.78	5.85	6.03		5.81	4.21
10/17/2019				5.61		
3/5/2020	4.82	5.89	6.04	5.39	5.53	4.01
8/19/2020	4.78	5.78	5.97	5.53	5.66	4.12
9/16/2020	4.78	5.81	5.96	5.58	5.84	
9/17/2020						4.17
3/3/2021	4.83	5.88		5.86	5.87	
3/4/2021			6.14			4.19
9/22/2021	4.81	5.93		5.53		
9/23/2021			6.08		5.85	4.05
2/1/2022	4.82	5.87	6.09	5.65		4.06
2/2/2022					5.8	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0032 (J)		<0.005	0.0079 (J)		0.0311
9/8/2016		<0.005				
11/17/2016	0.0028 (J)	<0.005	<0.005			
11/18/2016				0.0082 (J)		
11/21/2016						0.0409
2/22/2017	0.0018 (J)	<0.005	<0.005			
2/23/2017				0.0061 (J)	<0.005	0.0354
4/17/2017					<0.005	
5/15/2017					<0.005	
6/14/2017	0.004 (J)	<0.005				
6/15/2017			<0.005	0.0046 (J)	<0.005	0.0511
9/27/2017	0.0036 (J)	<0.005				
9/28/2017			<0.005	0.0042 (J)	<0.005	0.0484
2/15/2018	<0.005	<0.005	<0.005	0.0045 (J)	<0.005	0.0435
6/27/2018	0.0017 (J)	<0.005	<0.005			
6/28/2018				0.0033 (J)	<0.005	0.037
12/18/2018	<0.005	<0.005				
12/19/2018			<0.005	0.0042 (J)	<0.005	
12/20/2018						0.037
8/27/2019	<0.005					
8/28/2019	<0.005	<0.005	<0.005	0.0041 (J)	<0.005	
8/29/2019						0.036
10/16/2019	0.0028 (J)	<0.005	<0.005		<0.005	0.033
12/3/2019				0.0035 (J)		
3/5/2020	<0.005	<0.005	<0.005	0.0034 (J)	<0.005	0.032
8/19/2020	<0.005	<0.005	<0.005	0.002 (J)	<0.005	0.041
9/16/2020	0.0028 (J)	<0.005	<0.005	0.0031 (J)	<0.005	
9/17/2020						0.029
3/3/2021	<0.005	<0.005		0.0024 (J)	<0.005	
3/4/2021			<0.005			0.039
9/22/2021	<0.005	<0.005		0.0032 (J)		
9/23/2021			<0.005		<0.005	0.031
2/1/2022	<0.005	<0.005	<0.005	0.0025 (J)		0.029
2/2/2022					<0.005	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)		
9/1/2016					0.6 (J)	
9/7/2016						97
11/15/2016				<1 (J)	0.68 (J)	
11/16/2016	6.6	<1 (J)	3.4			
11/17/2016						120 (D)
2/20/2017			3.9 (B-01)	1 (B-01)	0.98 (J)	
2/21/2017	6.1	1.5				
2/22/2017						120
6/12/2017	5		3.7	0.94 (J)	0.54 (J)	
6/13/2017		0.67 (J)				
6/15/2017						130
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)	
9/28/2017						120
2/13/2018	4.7 (J)	<1	6.6	<1	<1	
2/15/2018						109
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)	
6/27/2018						118
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)	
12/19/2018						125
3/19/2019	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)	126
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)	
12/3/2019						180
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	95.4
9/15/2020	5.9	<1	1.7	<1	<1	
9/16/2020						151
3/1/2021	4.7				0.74 (J)	
3/2/2021		<1	2.2	<1		
3/4/2021						122
9/21/2021			2.3	<1		
9/22/2021	5.2	<1			<1	123
2/1/2022	5.4	<1	2	<1	<1	139

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	260		260	300		440
9/8/2016		420				
11/17/2016	235 (D)	445 (D)	285 (D)			
11/18/2016				245 (D)		
11/21/2016						490 (D)
2/22/2017	210	410	270			
2/23/2017				330	0.55 (J)	470
4/17/2017					0.44 (J)	
5/15/2017					0.45 (J)	
6/14/2017	200	410				
6/15/2017			280	310	0.46 (J)	490
9/27/2017	200	360				
9/28/2017			240	290	0.49 (J)	470
2/15/2018	197	335	266	292	1.9 (o)	432
6/27/2018	200	296	278			
6/28/2018				284	0.24 (J)	453
12/18/2018	222	345				
12/19/2018			287	319	0.4 (J)	
12/20/2018						463
3/19/2019				307		
3/20/2019	204	329	268		<1 (X)	405
10/16/2019	226	325	277		0.29 (J)	432
12/3/2019				256		
3/5/2020	173	287	269	262	<1	370
9/16/2020	154	283	270	256	<1	
9/17/2020						356
3/3/2021	133	277		252	<1	
3/4/2021			251			325
9/22/2021	94.6	232		234		
9/23/2021			258		<1	318
2/1/2022	99.7	243	256	195		287
2/2/2022					<1	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0002 (J)		<0.001	<0.001		<0.001
9/8/2016		<0.001				
11/17/2016	0.0002 (J)	<0.001	<0.001			
11/18/2016				<0.001		
11/21/2016						0.0004 (J)
2/22/2017	0.0002 (J)	<0.001	<0.001			
2/23/2017				<0.001	<0.001	0.0003 (J)
4/17/2017					<0.001	
5/15/2017					<0.001	
6/14/2017	0.0002 (J)	<0.001				
6/15/2017			<0.001	<0.001	<0.001	0.0003 (J)
9/27/2017	0.0002 (J)	<0.001				
9/28/2017			<0.001	<0.001	<0.001	0.0003 (J)
2/15/2018	0.00024 (J)	<0.001	<0.001	<0.001	<0.001	0.00026 (J)
6/27/2018	0.00022 (J)	<0.001	<0.001			
6/28/2018				<0.001	<0.001	0.00018 (J)
12/18/2018	0.00022 (J)	<0.001				
12/19/2018			<0.001	<0.001	<0.001	
12/20/2018						<0.001 (X)
8/27/2019	0.00016 (J)					
8/28/2019	0.00016 (J)	<0.001	<0.001	<0.001	<0.001	
8/29/2019						0.00021 (J)
10/16/2019	0.00019 (J)	<0.001	<0.001		<0.001	0.0002 (J)
12/3/2019				<0.001		
3/5/2020	0.0002 (J)	<0.001	<0.001	<0.001	<0.001	0.0002 (J)
8/19/2020	0.00018 (J)	<0.001	<0.001	<0.001	<0.001	0.00019 (J)
9/16/2020	0.00018 (J)	<0.001	<0.001	<0.001	<0.001	
9/17/2020						0.00017 (J)
3/3/2021	0.00018 (J)	<0.001		<0.001	<0.001	
3/4/2021			<0.001			<0.001
9/22/2021	<0.001	<0.001		<0.001		
9/23/2021			<0.001		<0.001	0.00022 (J)
2/1/2022	<0.001	<0.001	<0.001	<0.001		<0.001
2/2/2022					<0.001	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	151	88	138	154		
9/1/2016					299	
9/7/2016						331
11/15/2016				123	41	
11/16/2016	69	41	77			
11/17/2016						308
2/20/2017			170	158	133	
2/21/2017	68	<10				
2/22/2017						341
6/12/2017	161		132	142	61	
6/13/2017		53				
6/15/2017						333
9/26/2017	167	45	108	138	29	
9/28/2017						310
2/13/2018	165	63	141	150	61	
2/15/2018						292
6/26/2018	188	71	133	154	71	
6/27/2018						353 (X)
12/18/2018	145 (X)	78 (X)	138 (X)	147	70 (X)	
12/19/2018						317
3/19/2019	146.5 (D)	68	130	146	72	303
10/15/2019	140	66	175	144	63	
12/3/2019						378
3/3/2020	155	41	<10	130	54	263
9/15/2020	116	69	100	116	79	
9/16/2020						316
3/1/2021	98				39	
3/2/2021		43	80	96		
3/4/2021						316
9/21/2021			108	104		
9/22/2021	129	66			62	323
2/1/2022	126	72	129	124	61	354

Time Series

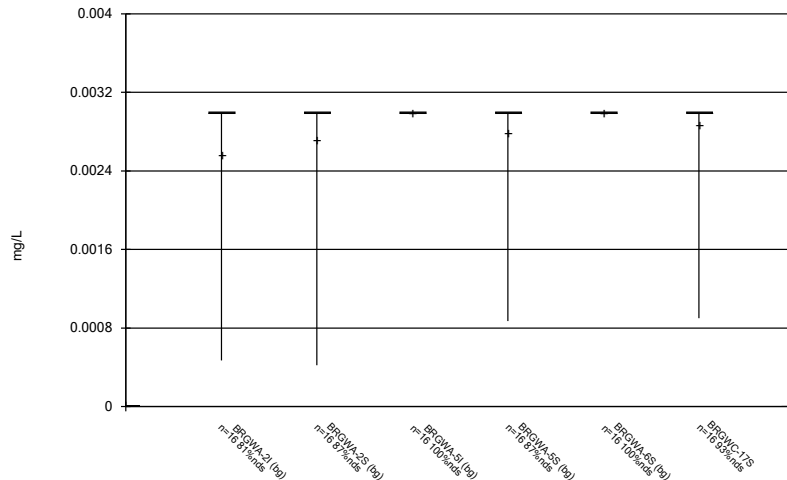
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2022 8:23 AM View: Pond E.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	382		486	528		750
9/8/2016		663				
11/17/2016	382	651	453			
11/18/2016				524		
11/21/2016						795
2/22/2017	387	706	541			
2/23/2017				517	45	733
4/17/2017					53	
5/15/2017					48	
6/14/2017	316	643				
6/15/2017			548	566	63	812
9/27/2017	303	579				
9/28/2017			487	475	39	690
2/15/2018	332	612	500	513	54	722
6/27/2018	538 (X)	359 (X)	347 (X)			
6/28/2018				499	59 (X)	704
12/18/2018	358	535				
12/19/2018			489	521	68	
12/20/2018						642
3/19/2019				498		
3/20/2019	338	517	501		68 (X)	615
10/16/2019	281	473	481		49	630
12/3/2019				498		
3/5/2020	292	489	535	457	39	608
9/16/2020	88	392	474	463	31	
9/17/2020						587
3/3/2021	212	422		442	33	
3/4/2021			480			540
9/22/2021	190	406		457		
9/23/2021			511		49	528
2/1/2022	209	449	521	441		560
2/2/2022					46	

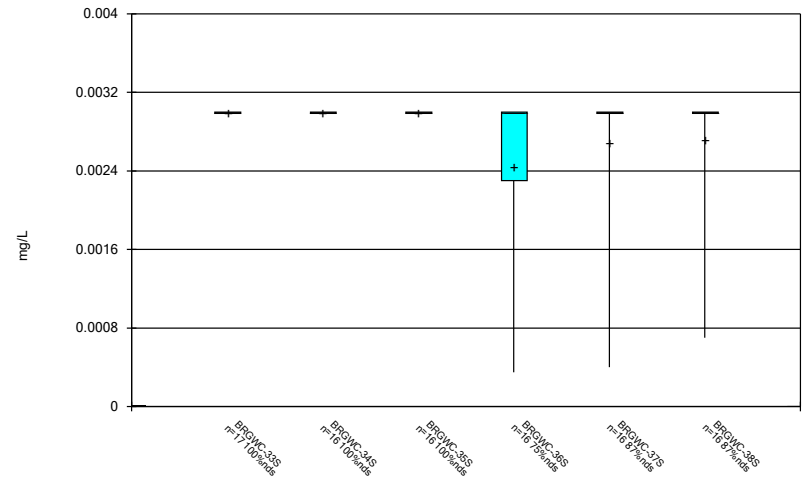
FIGURE B.

Box & Whiskers Plot



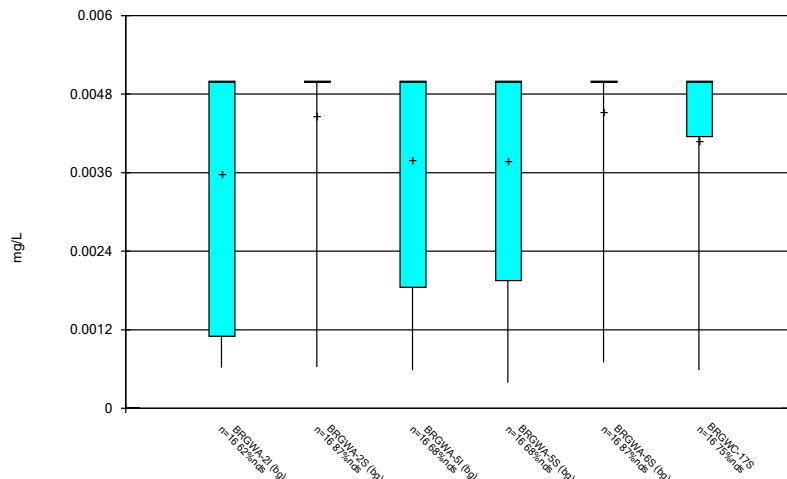
Constituent: Antimony Analysis Run 5/3/2022 8:23 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



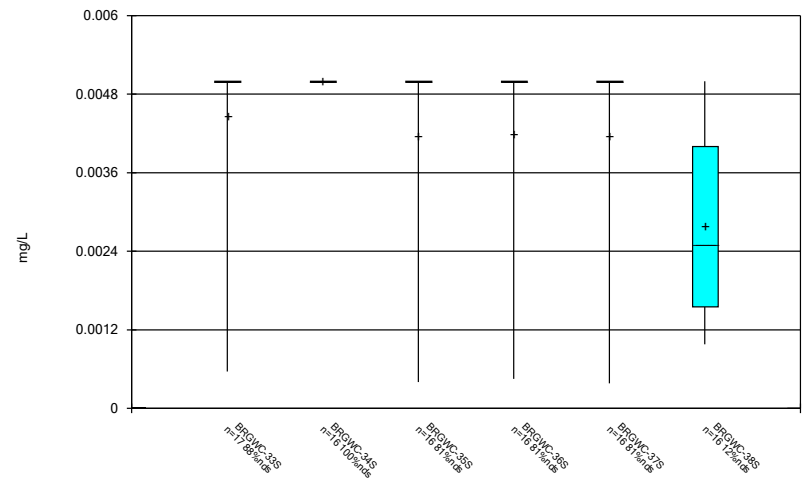
Constituent: Antimony Analysis Run 5/3/2022 8:23 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



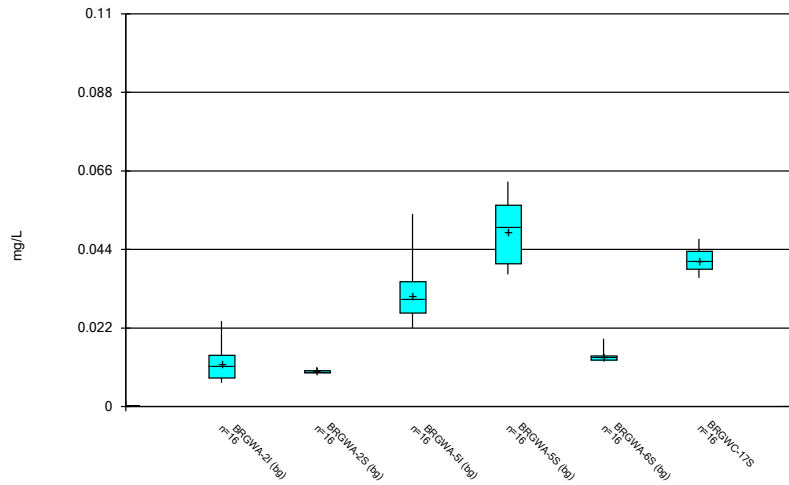
Constituent: Arsenic Analysis Run 5/3/2022 8:23 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



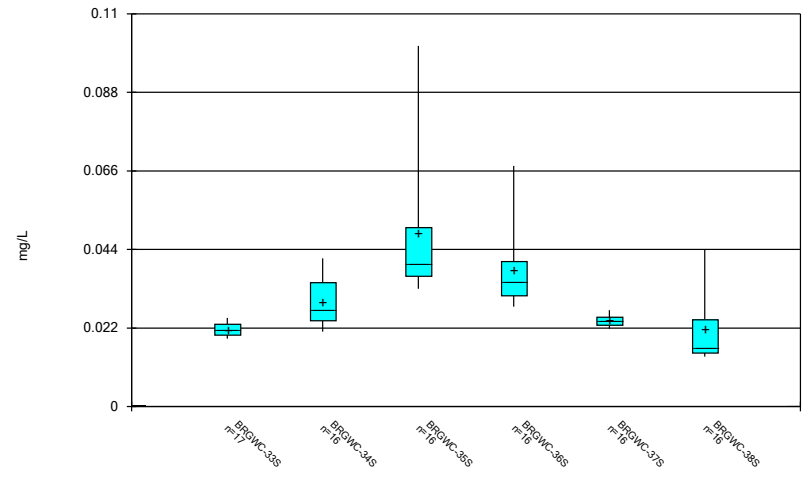
Constituent: Arsenic Analysis Run 5/3/2022 8:23 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



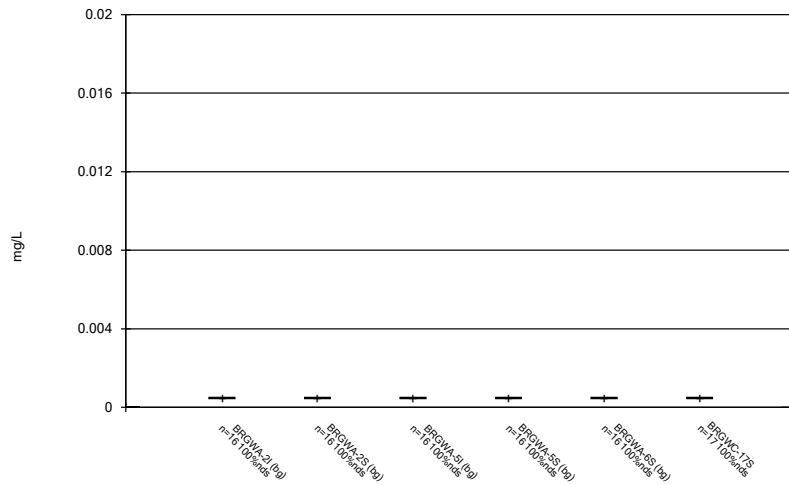
Constituent: Barium Analysis Run 5/3/2022 8:23 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



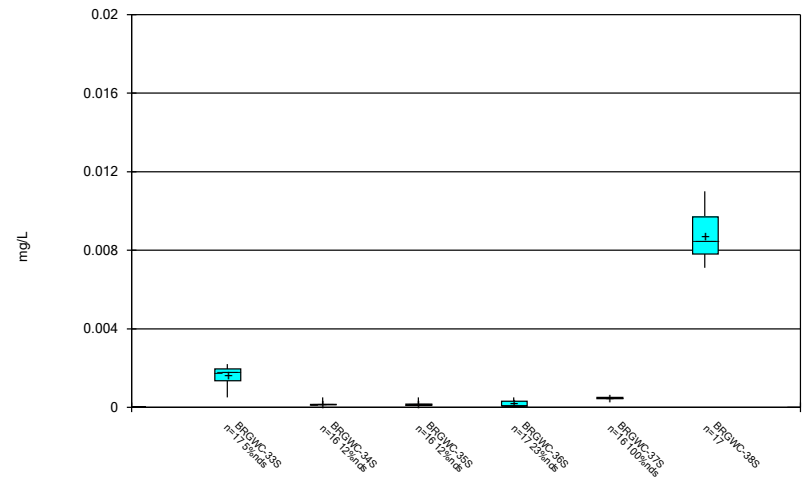
Constituent: Barium Analysis Run 5/3/2022 8:23 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



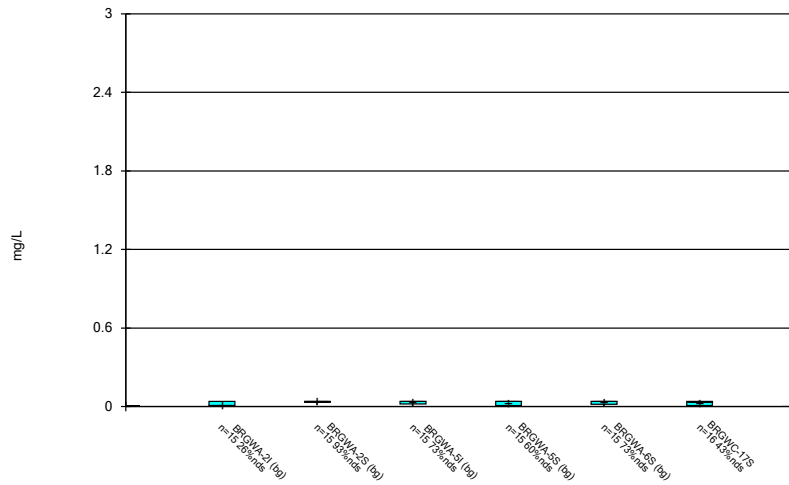
Constituent: Beryllium Analysis Run 5/3/2022 8:23 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



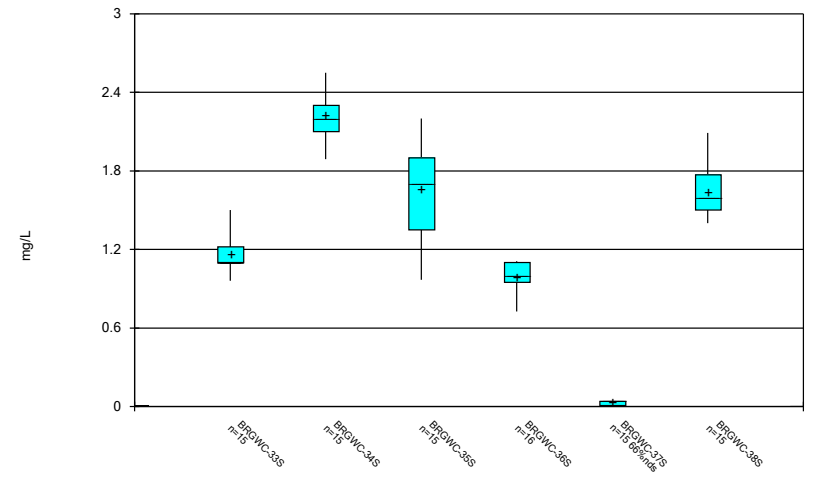
Constituent: Beryllium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



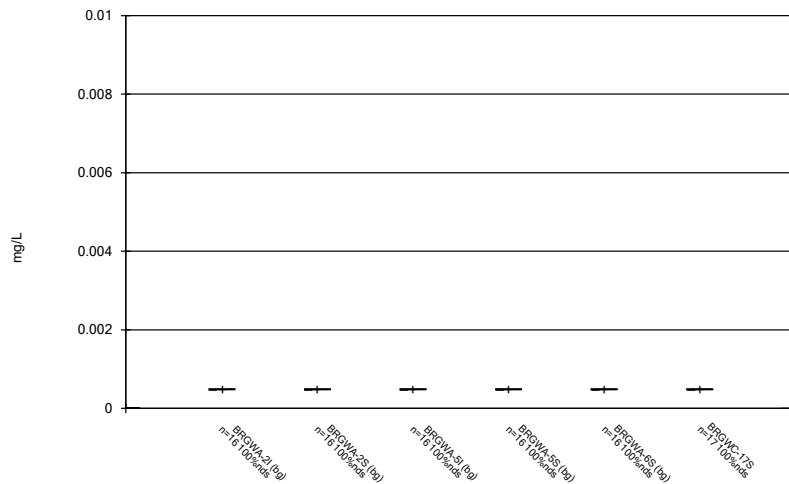
Constituent: Boron Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



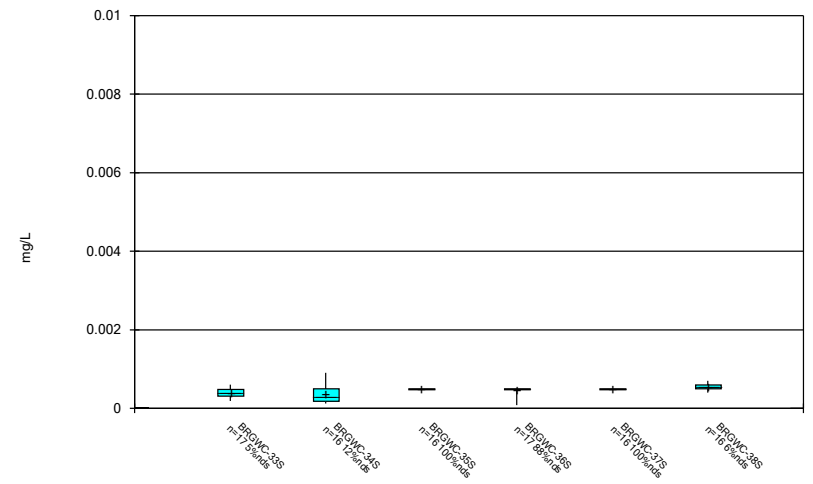
Constituent: Boron Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



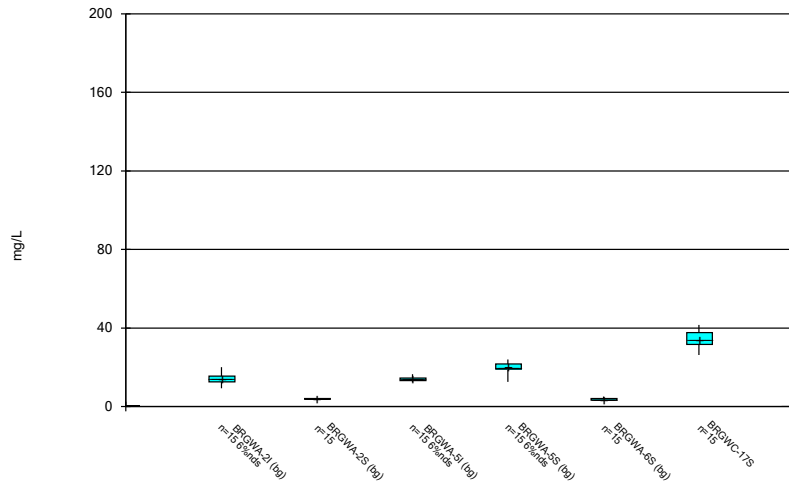
Constituent: Cadmium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



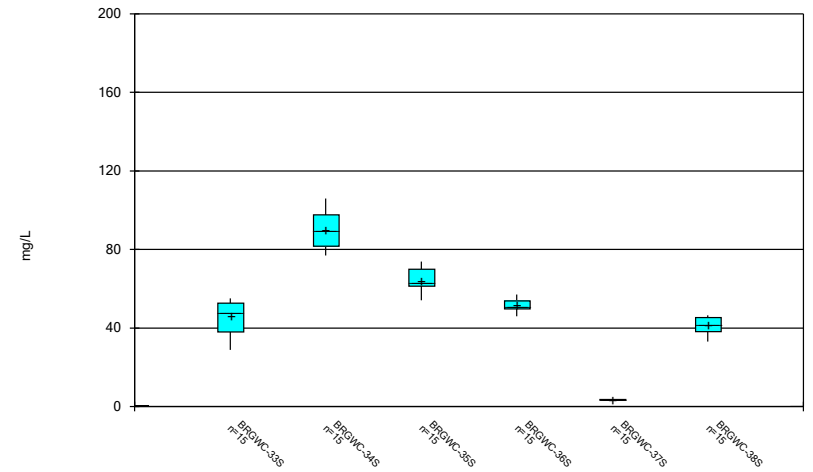
Constituent: Cadmium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



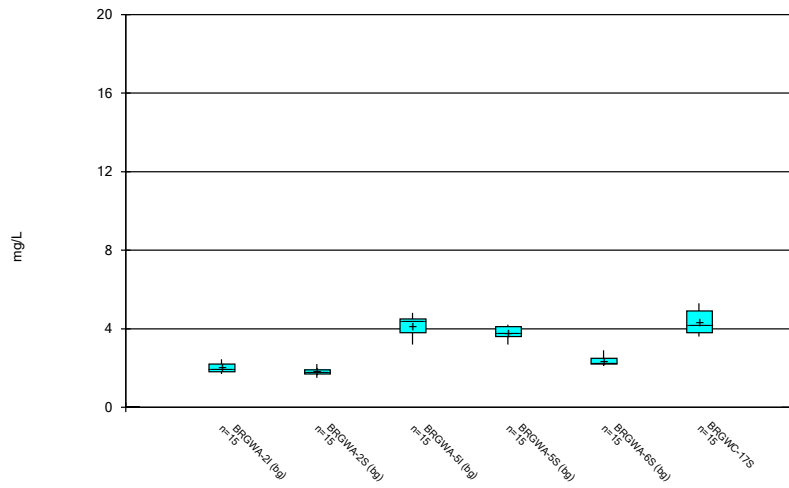
Constituent: Calcium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



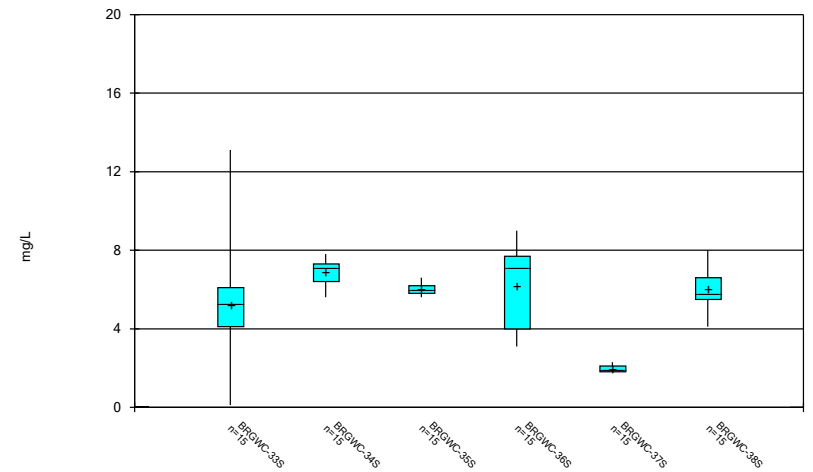
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Box & Whiskers Plot



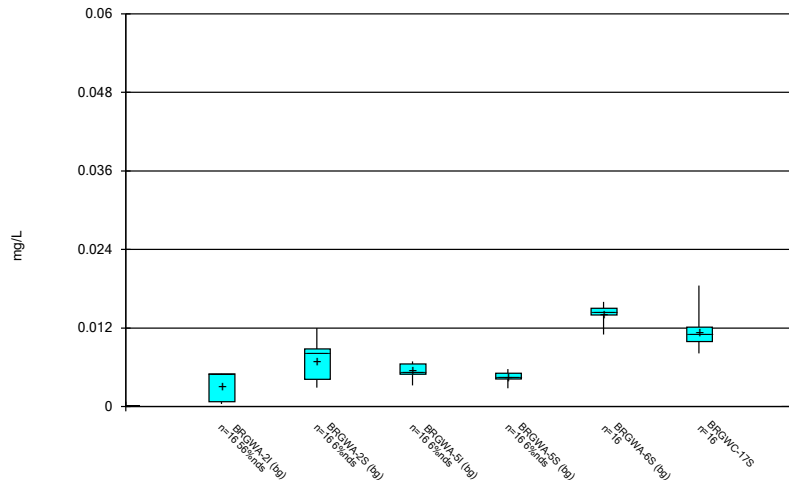
Constituent: Chloride Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



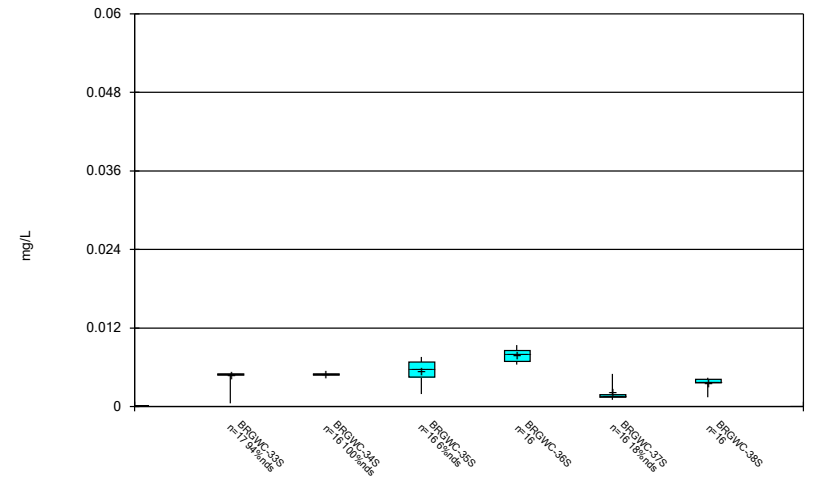
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



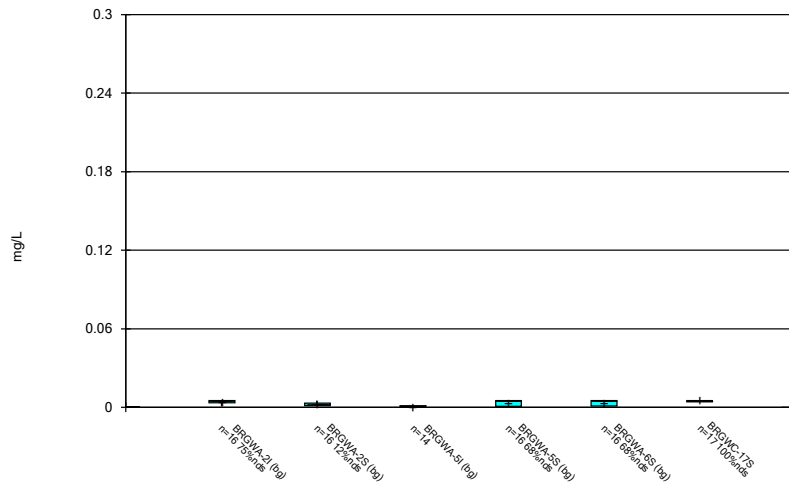
Constituent: Chromium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



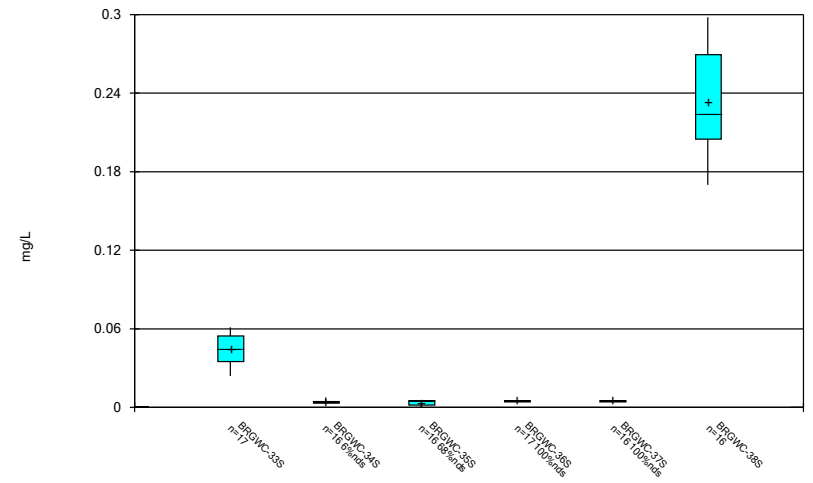
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



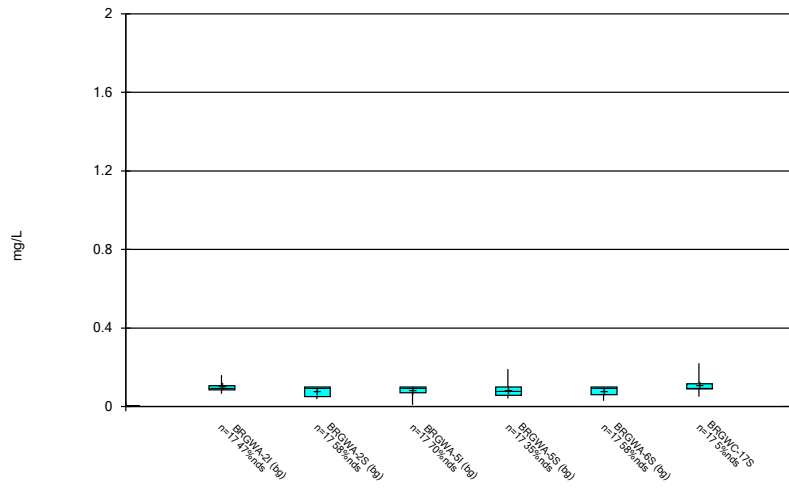
Constituent: Cobalt Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



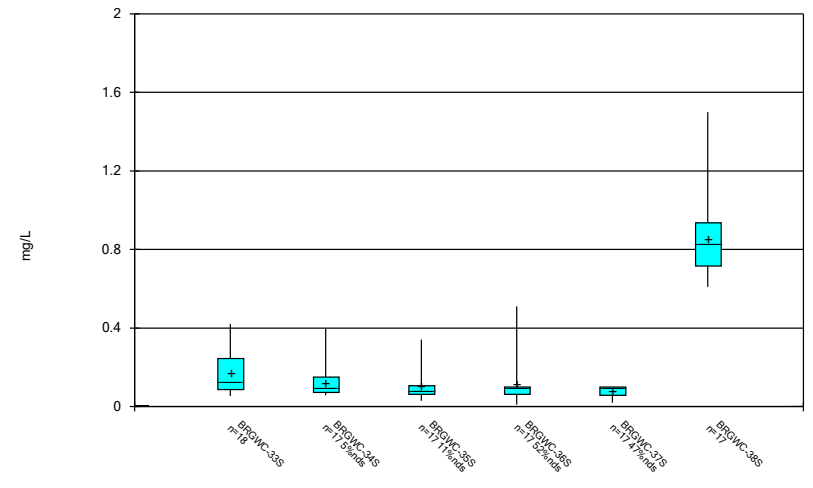
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



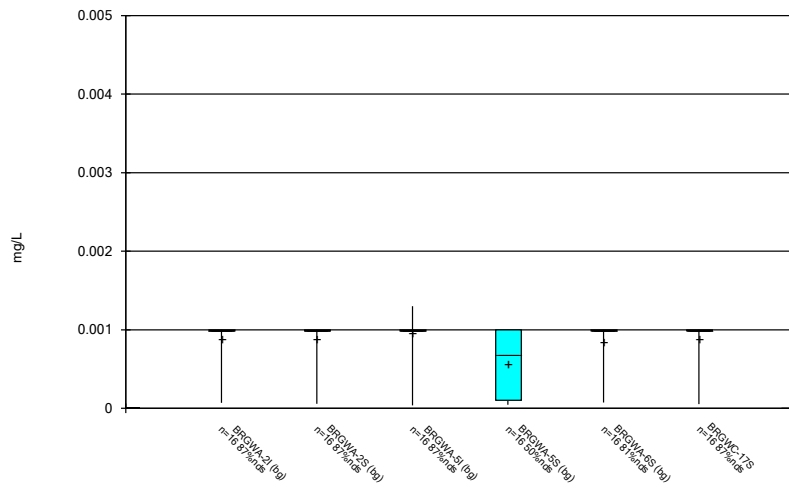
Constituent: Fluoride Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



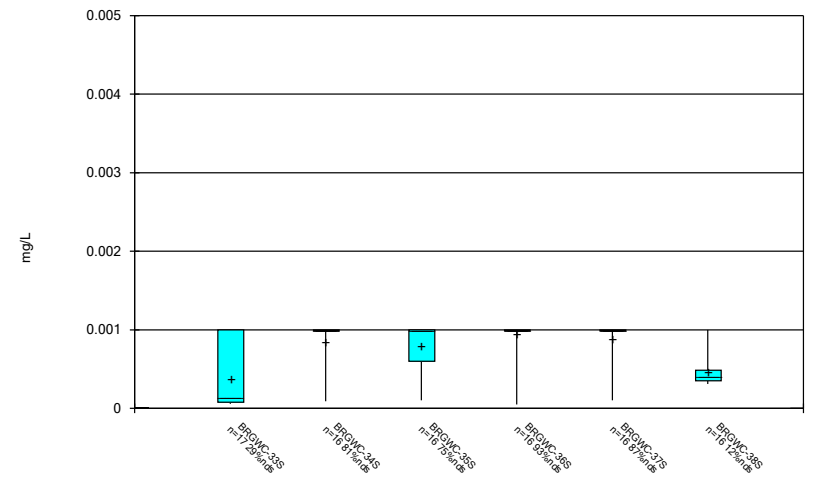
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



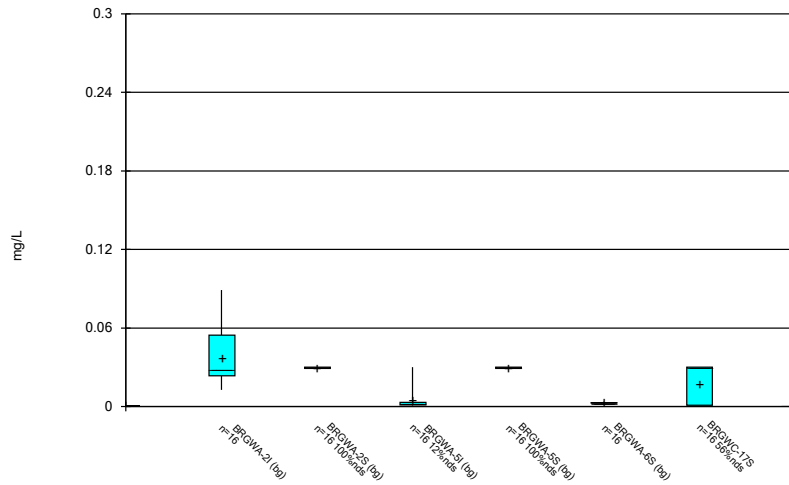
Constituent: Lead Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



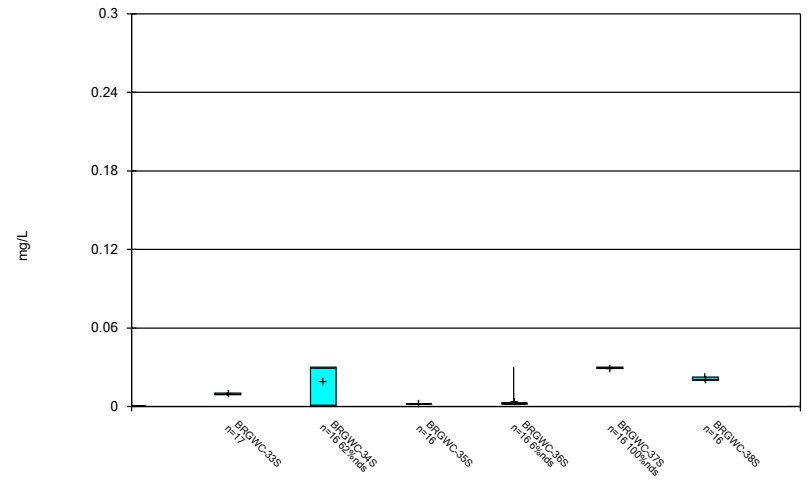
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



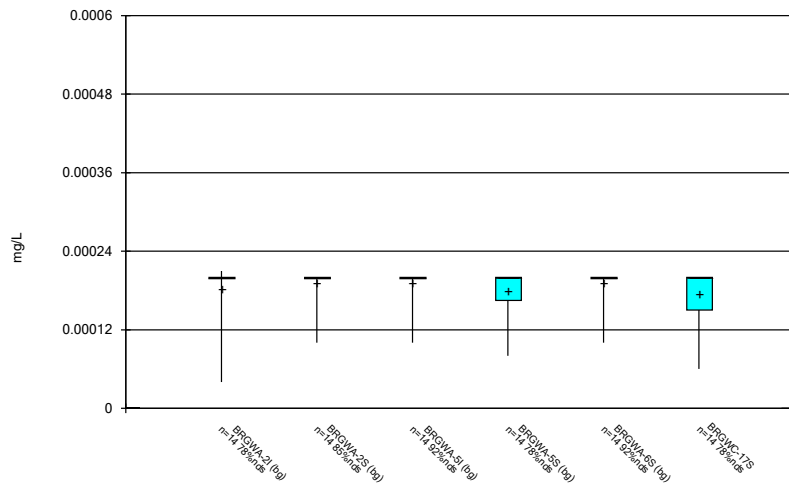
Constituent: Lithium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



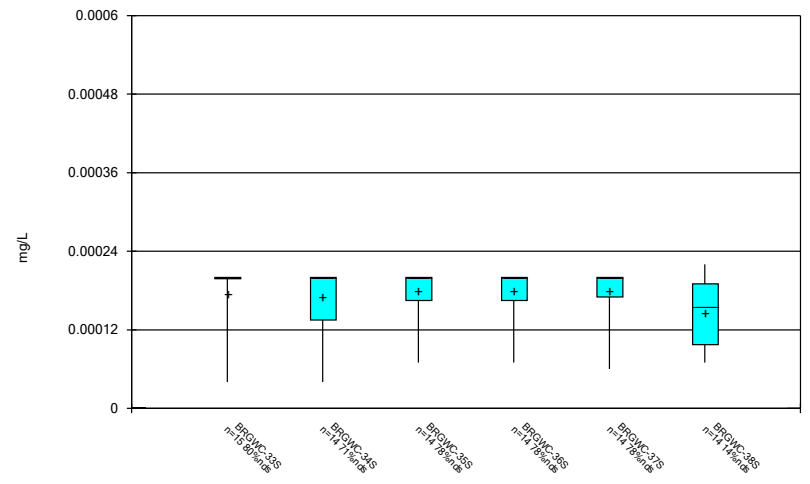
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Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



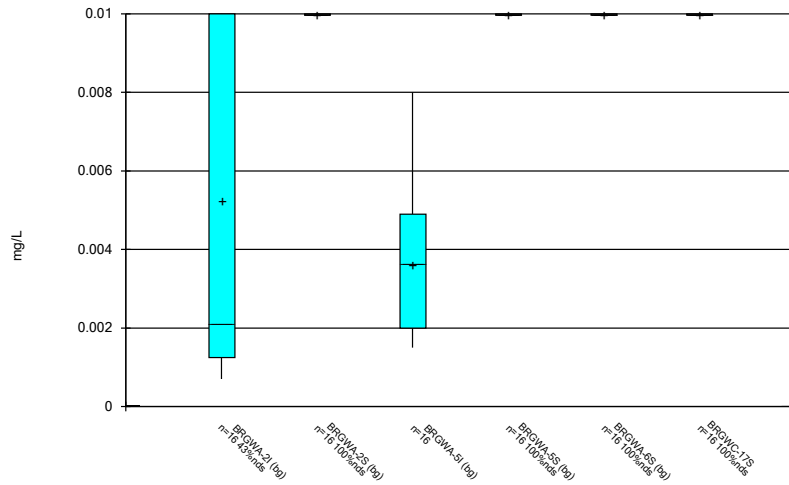
Constituent: Mercury Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



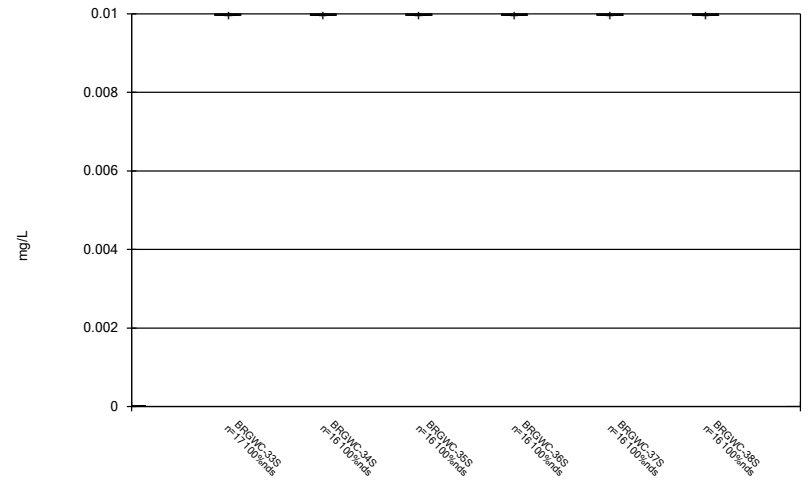
Constituent: Mercury Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



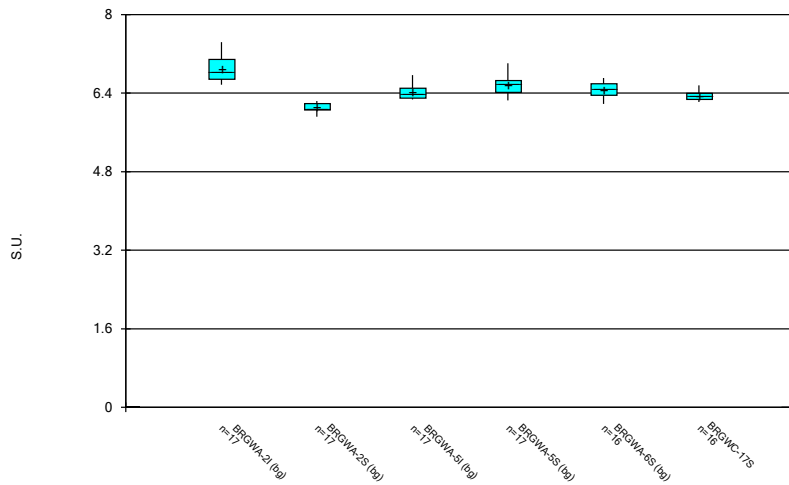
Constituent: Molybdenum Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



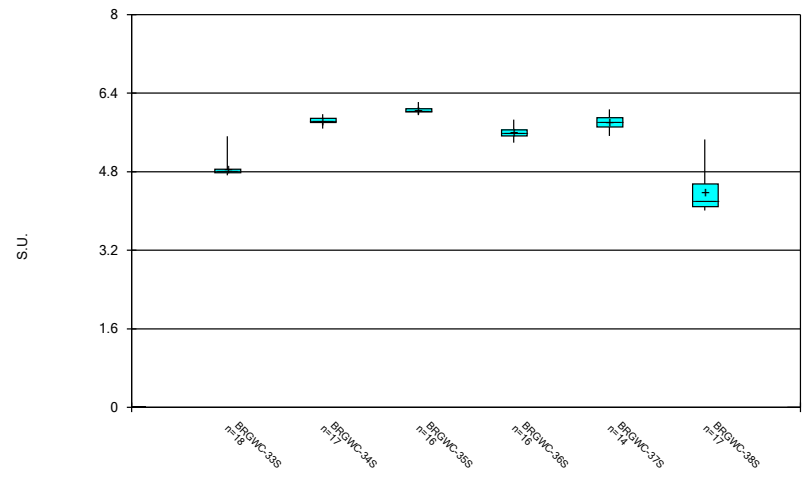
Constituent: Molybdenum Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



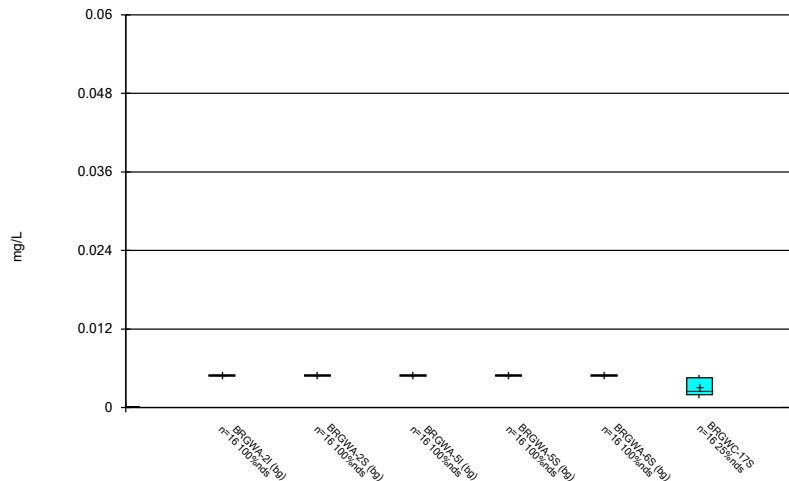
Constituent: pH, Field Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



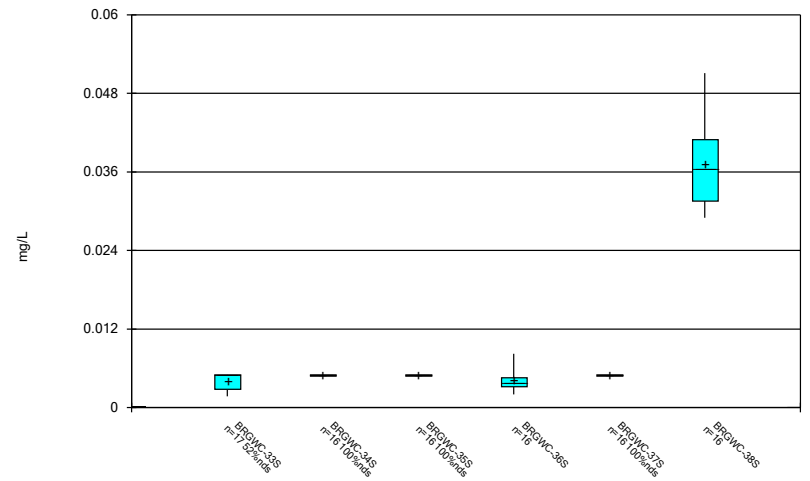
Constituent: pH, Field Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



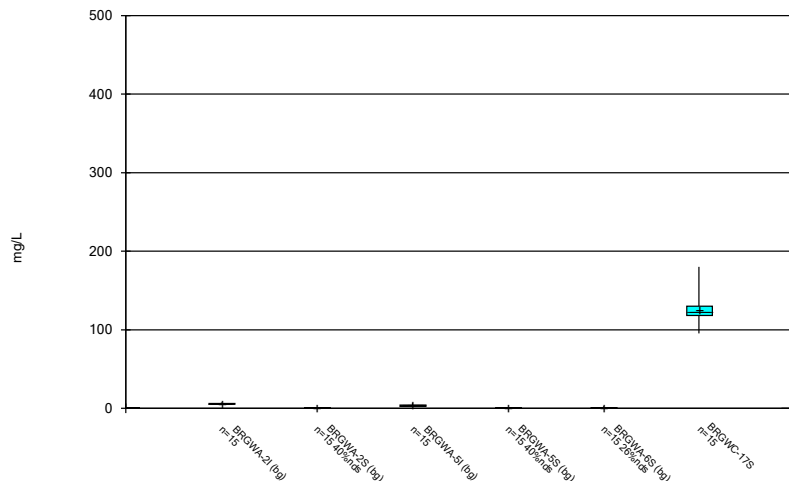
Constituent: Selenium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



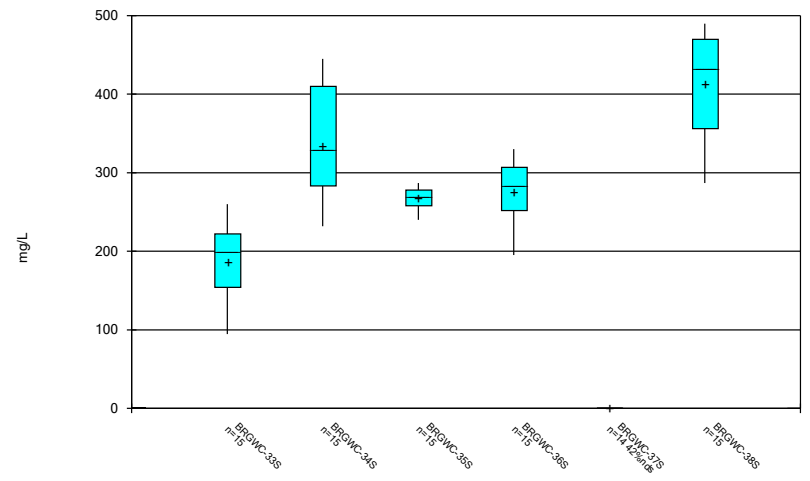
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 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



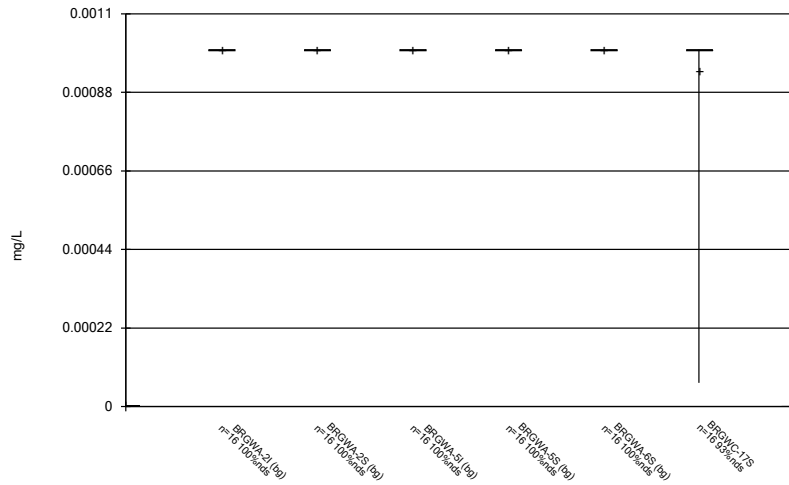
Constituent: Sulfate Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



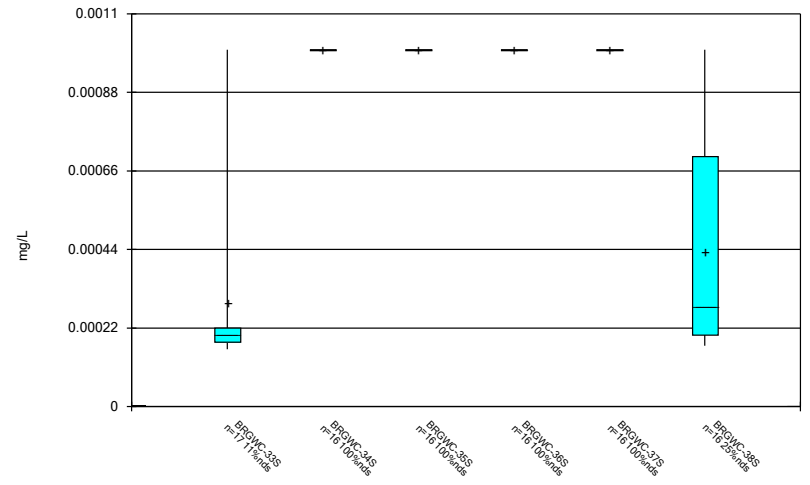
Constituent: Sulfate Analysis Run 5/3/2022 8:24 AM View: Pond E.1
 Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



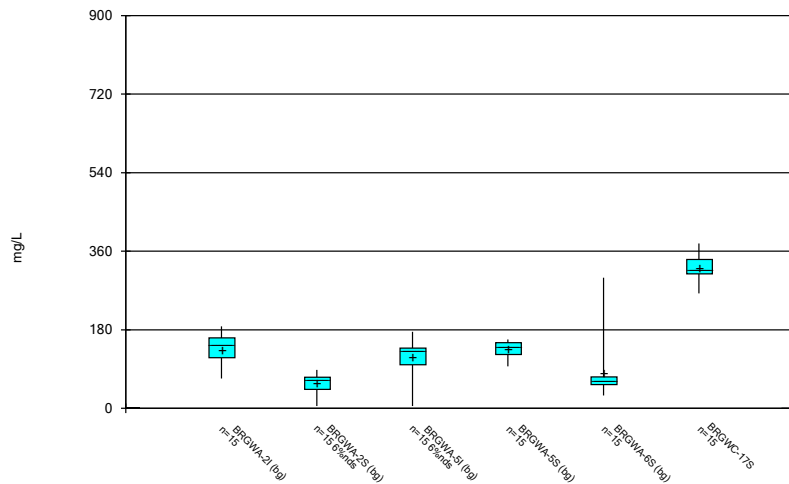
Constituent: Thallium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



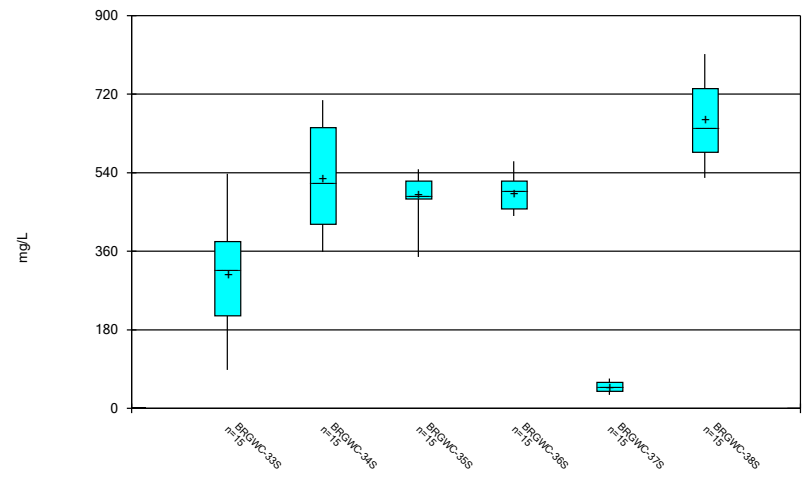
Constituent: Thallium Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/3/2022 8:24 AM View: Pond E.1
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/2/2022, 11:04 AM

	BRGWA-5I Cobalt (mg/L)	BRGWC-37S Sulfate (mg/L)
11/16/2016	<0.01 (o)	
2/13/2018	<0.01 (o)	
2/15/2018		1.9 (o)

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-33S	0.04	n/a	2/1/2022	1.1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	2/1/2022	2.2	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	2/1/2022	2.1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	2/1/2022	1	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	2/1/2022	1.6	Yes	75	n/a	n/a	65.33	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/1/2022	41.5	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/1/2022	34.3	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/1/2022	81.7	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/1/2022	73.8	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/1/2022	49.7	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/1/2022	37.8	Yes	75	n/a	n/a	4	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/1/2022	4.9	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/1/2022	13.1	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/1/2022	5.9	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/1/2022	6	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2022	7.6	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2022	5.8	Yes	75	n/a	n/a	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	2/1/2022	0.95	Yes	85	n/a	n/a	54.12	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.069	5.911	2/1/2022	4.82	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-34S	7.069	5.911	2/1/2022	5.87	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.069	5.911	2/1/2022	5.65	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.069	5.911	2/2/2022	5.8	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.069	5.911	2/1/2022	4.06	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2022	139	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/1/2022	99.7	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/1/2022	243	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2022	256	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/1/2022	195	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/1/2022	287	Yes	75	n/a	n/a	21.33	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	2/1/2022	354	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	2/1/2022	449	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	2/1/2022	521	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	2/1/2022	441	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	2/1/2022	560	Yes	75	n/a	n/a	2.667	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

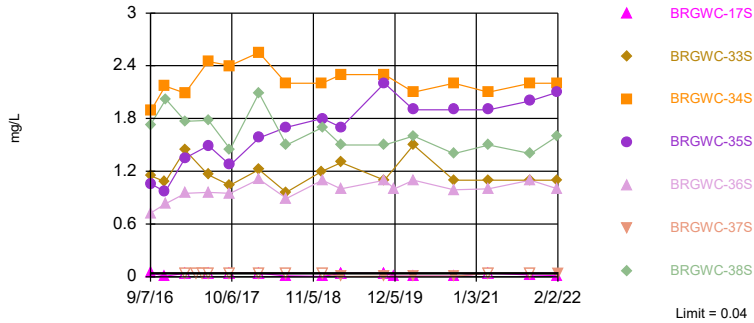
Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.04	n/a	2/1/2022	0.013J	No	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.04	n/a	2/1/2022	1.1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.04	n/a	2/1/2022	2.2	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.04	n/a	2/1/2022	2.1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.04	n/a	2/1/2022	1	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-37S	0.04	n/a	2/2/2022	0.032J	No	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.04	n/a	2/1/2022	1.6	Yes	75	n/a	n/a	65.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/1/2022	41.5	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/1/2022	34.3	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/1/2022	81.7	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/1/2022	73.8	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/1/2022	49.7	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-37S	24	n/a	2/2/2022	3.7	No	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/1/2022	37.8	Yes	75	n/a	n/a	4	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/1/2022	4.9	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/1/2022	13.1	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/1/2022	5.9	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/1/2022	6	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2022	7.6	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/2/2022	1.8	No	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2022	5.8	Yes	75	n/a	n/a	0	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.19	n/a	2/1/2022	0.079J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.19	n/a	2/1/2022	0.053J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.19	n/a	2/1/2022	0.06J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.19	n/a	2/1/2022	0.055J	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.19	n/a	2/1/2022	0.1ND	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.19	n/a	2/2/2022	0.1ND	No	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.19	n/a	2/1/2022	0.95	Yes	85	n/a	n/a	54.12	n/a	n/a	n/a	n/a	0.0002677	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-17S	7.069	5.911	2/1/2022	6.39	No	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-33S	7.069	5.911	2/1/2022	4.82	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-34S	7.069	5.911	2/1/2022	5.87	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-35S	7.069	5.911	2/1/2022	6.09	No	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-36S	7.069	5.911	2/1/2022	5.65	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-37S	7.069	5.911	2/2/2022	5.8	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
pH, Field (S.U.)	BRGWC-38S	7.069	5.911	2/1/2022	4.06	Yes	84	6.49	0.3061	0	None	No	0.0005373	Param Inter 1 of 2		
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2022	139	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/1/2022	99.7	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/1/2022	243	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2022	256	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/1/2022	195	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/2/2022	0.5ND	No	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/1/2022	287	Yes	75	n/a	n/a	21.33	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	299	n/a	2/1/2022	354	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	299	n/a	2/1/2022	209	No	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	299	n/a	2/1/2022	449	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	299	n/a	2/1/2022	521	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	299	n/a	2/1/2022	441	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-37S	299	n/a	2/2/2022	46	No	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	299	n/a	2/1/2022	560	Yes	75	n/a	n/a	2.667	n/a	n/a	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

Exceeds Limit: BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric

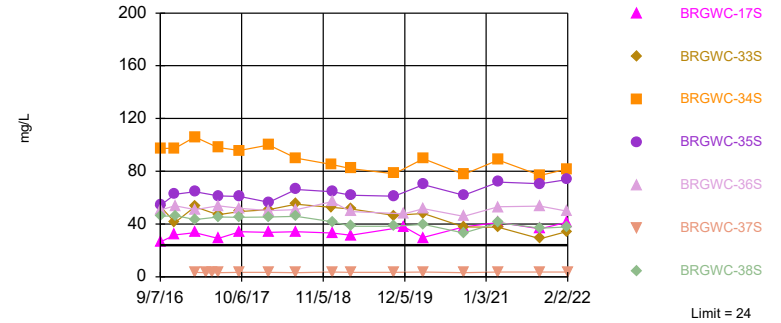


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 75 background values. 65.33% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 3/11/2022 12:36 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric

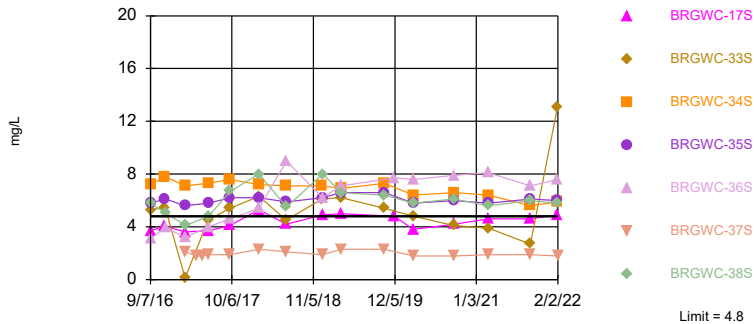


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 4% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 3/11/2022 12:36 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric

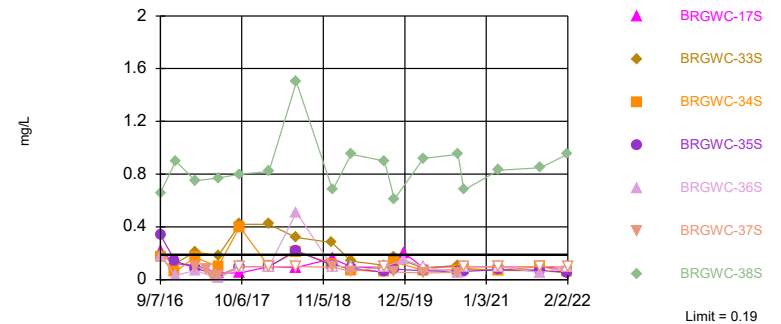


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 3/11/2022 12:36 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-38S

Prediction Limit
Interwell Non-parametric

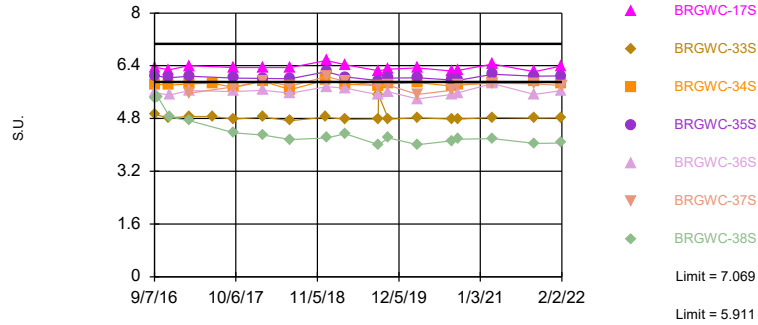


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 54.12% NDs. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 3/11/2022 12:37 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limits: BRGWC-33S, BRGWC-34S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Prediction Limit
Interwell Parametric

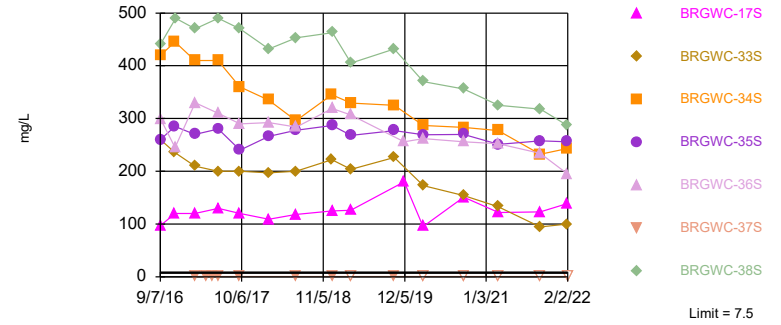


Background Data Summary: Mean=6.49, Std. Dev.=0.3061, n=84. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9711, critical = 0.96. Kappa = 1.891 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 3/11/2022 12:37 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.
Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric

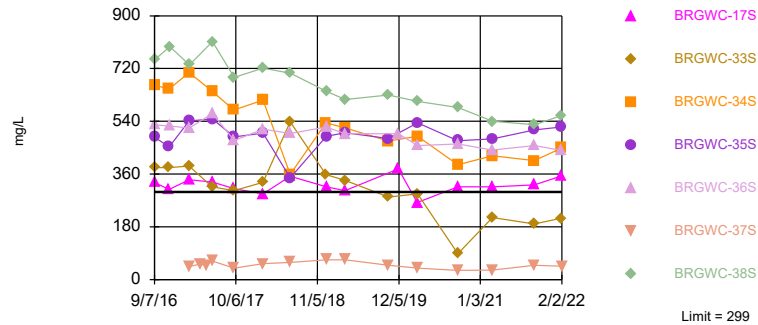


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 21.33% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 3/11/2022 12:37 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Exceeds Limit: BRGWC-17S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 2.667% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:37 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	1.06		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016	0.967	2.17	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	1.35	2.09	
2/23/2017			<0.04
4/17/2017			<0.04
5/15/2017			<0.04
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	1.49		<0.04
9/26/2017			
9/27/2017		2.4	
9/28/2017	1.27		<0.04
2/13/2018			
2/15/2018	1.58	2.55	<0.04
6/26/2018			
6/27/2018	1.7 (J+X)	2.2 (J+X)	
6/28/2018			<0.04 (X)
12/18/2018		2.2	
12/19/2018	1.8		<0.04
12/20/2018			
3/19/2019			
3/20/2019	1.7	2.3	0.004 (J)
10/15/2019			
10/16/2019	2.2	2.3	0.0055 (J)
10/17/2019			
12/3/2019			
3/3/2020			
3/5/2020	1.9	2.1	0.0076 (J)
9/15/2020			
9/16/2020	1.9	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		2.1	<0.04
3/4/2021	1.9		
9/21/2021			
9/22/2021		2.2	
9/23/2021	2		<0.04
2/1/2022	2.1	2.2	
2/2/2022			0.032 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	54.1		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016	62.6	97.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	64.6	106	
2/23/2017			3.26
4/17/2017			3.23
5/15/2017			2.97 (B-01)
6/12/2017			
6/13/2017			
6/14/2017		98	
6/15/2017	61.3		3.15
9/26/2017			
9/27/2017		95.8	
9/28/2017	60.8		3.26
2/13/2018			
2/15/2018	56.6	100	3.39
6/26/2018			
6/27/2018	66.2	90.1	
6/28/2018			3.1
12/18/2018		85.1	
12/19/2018	64.4		3.6
12/20/2018			
3/19/2019			
3/20/2019	61.8	82	3.3
10/15/2019			
10/16/2019	61.2	78.2	3.4
12/3/2019			
3/3/2020			
3/5/2020	69.9	89.6	3.7
9/15/2020			
9/16/2020	61.8	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		88.6	3.6
3/4/2021	71.8		
9/21/2021			
9/22/2021		76.9	
9/23/2021	70.5		3.7
2/1/2022	73.8	81.7	
2/2/2022			3.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.8		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016	6.1 (D)	7.8 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	5.6	7.1	
2/23/2017			2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	5.8		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	6.2		1.9
2/13/2018			
2/15/2018	6.2	7.2	2.3
6/26/2018			
6/27/2018	5.9	7.1	
6/28/2018			2.1 (J-X)
12/18/2018		7.1	
12/19/2018	6.2 (J-X)		1.9 (J-X)
12/20/2018			
3/19/2019			
3/20/2019	6.6	6.9	2.3
10/15/2019			
10/16/2019	6.6	7.3	2.3
12/3/2019			
3/3/2020			
3/5/2020	5.8	6.4	1.8
9/15/2020			
9/16/2020	6	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		6.4	1.9
3/4/2021	5.8		
9/21/2021			
9/22/2021		5.6	
9/23/2021	6.1		1.9
2/1/2022	6	5.9	
2/2/2022			1.8

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.66	0.18 (J)	0.34	0.22 (J)
9/8/2016									
11/15/2016		0.13 (J)			0.06 (J)				
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)					
11/17/2016								0.14 (J)	0.12 (J)
11/18/2016							0.03 (J)		
11/21/2016						0.9 (D)			
2/20/2017		0.08 (J)	0.06 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)					
2/22/2017								0.09 (J)	0.11 (J)
2/23/2017						0.75	0.07 (J)		
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)		0.06 (J)				
6/13/2017				0.04 (J)					
6/14/2017									
6/15/2017						0.77	0.01 (J)	0.03 (J)	0.05 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.1	<0.1	<0.1				
9/27/2017									
9/28/2017						0.8	<0.1	<0.1	0.05 (J)
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1				
2/15/2018						0.82	<0.1	<0.1	<0.1
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.041 (J)				
6/27/2018								0.22 (J)	0.093 (J)
6/28/2018						1.5 (J+X)	0.51 (J+X)		
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1				
12/19/2018							<0.1	0.11 (J)	0.16 (J)
12/20/2018						0.68			
3/19/2019	0.0655 (JD)	0.06 (J)	<0.1	0.037 (J)	0.03 (J)		<0.1		0.1 (J)
3/20/2019						0.95		0.088 (J)	
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1				
8/28/2019							<0.1	0.056 (J)	0.085 (J)
8/29/2019						0.9			
10/15/2019	<0.1	0.045 (J)	<0.1	<0.1	<0.1				
10/16/2019						0.61		0.08 (J)	
12/3/2019							0.15 (J)		0.2 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.1	0.05 (J)	0.09 (J)				0.093 (J)
3/5/2020						0.92	<0.1	0.067 (J)	
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
8/19/2020						0.95	0.051 (J)	0.06 (J)	0.1
9/15/2020	<0.1	0.051 (J)	<0.1	<0.1	<0.1				
9/16/2020							<0.1	0.062 (J)	0.1
9/17/2020						0.68			
3/1/2021	<0.1				<0.1				
3/2/2021		<0.1	<0.1	<0.1					
3/3/2021							<0.1		
3/4/2021						0.83		0.076 (J)	0.096 (J)
9/21/2021		0.056 (J)	<0.1						
9/22/2021	<0.1			<0.1	<0.1		0.054 (J)		0.1
9/23/2021						0.85		0.073 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III
 Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.12 (J)	0.06 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.1
2/13/2018			
2/15/2018	0.42	<0.1	<0.1
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.1
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019	0.11 (J)	0.057 (J)	<0.1
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.1
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
2/1/2022	0.053 (J)	0.06 (J)	
2/2/2022			<0.1

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-36S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.59		
9/8/2016		5.84	
9/23/2016			
11/15/2016			
11/16/2016			
11/17/2016		5.81	
11/18/2016	5.51		
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017		5.85	
2/23/2017	5.65		5.57
6/12/2017			
6/13/2017			
6/14/2017		5.87	
9/26/2017			
9/27/2017		5.74	
9/28/2017	5.62		5.76
2/13/2018			
2/15/2018	5.66	5.93	5.95
6/26/2018			
6/27/2018		5.68	
6/28/2018	5.57		5.78
12/18/2018		5.97	
12/19/2018	5.76		6.07
12/20/2018			
3/19/2019	5.72		
3/20/2019		5.84	5.93
8/27/2019			
8/28/2019	5.52	5.8	5.8
8/29/2019			
10/15/2019			
10/16/2019		5.85	5.81
10/17/2019	5.61		
3/3/2020			
3/5/2020	5.39	5.89	5.53
8/18/2020			
8/19/2020	5.53	5.78	5.66
9/15/2020			
9/16/2020	5.58	5.81	5.84
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	5.86	5.88	5.87
3/4/2021			
9/21/2021			
9/22/2021	5.53	5.93	
9/23/2021			5.85
2/1/2022	5.65	5.87	
2/2/2022			5.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	260		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016	285 (D)	445 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	270	410	
2/23/2017			0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017		410	
6/15/2017	280		0.46 (J)
9/26/2017			
9/27/2017		360	
9/28/2017	240		0.49 (J)
2/13/2018			
2/15/2018	266	335	1.9 (o)
6/26/2018			
6/27/2018	278	296	
6/28/2018			0.24 (J)
12/18/2018		345	
12/19/2018	287		0.4 (J)
12/20/2018			
3/19/2019			
3/20/2019	268	329	<1 (X)
10/15/2019			
10/16/2019	277	325	0.29 (J)
12/3/2019			
3/3/2020			
3/5/2020	269	287	<1
9/15/2020			
9/16/2020	270	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		277	<1
3/4/2021	251		
9/21/2021			
9/22/2021		232	
9/23/2021	258		<1
2/1/2022	256	243	
2/2/2022			<1

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/11/2022 12:38 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	486		
9/8/2016		663	
11/15/2016			
11/16/2016			
11/17/2016	453	651	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	541	706	
2/23/2017			45
4/17/2017			53
5/15/2017			48
6/12/2017			
6/13/2017			
6/14/2017		643	
6/15/2017	548		63
9/26/2017			
9/27/2017		579	
9/28/2017	487		39
2/13/2018			
2/15/2018	500	612	54
6/26/2018			
6/27/2018	347 (X)	359 (X)	
6/28/2018			59 (X)
12/18/2018		535	
12/19/2018	489		68
12/20/2018			
3/19/2019			
3/20/2019	501	517	68 (X)
10/15/2019			
10/16/2019	481	473	49
12/3/2019			
3/3/2020			
3/5/2020	535	489	39
9/15/2020			
9/16/2020	474	392	31
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		422	33
3/4/2021	480		
9/21/2021			
9/22/2021		406	
9/23/2021	511		49
2/1/2022	521	449	
2/2/2022			46

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-35S	0.1835	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1798	62	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.731	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.32	-67	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.803	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2086	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2751	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.02	69	53	Yes	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1124	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05509	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1481	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-23.05	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.6	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-14.05	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-36	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-53.52	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.09	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-47.27	-87	-53	Yes	15	0	n/a	n/a	0.01	NP

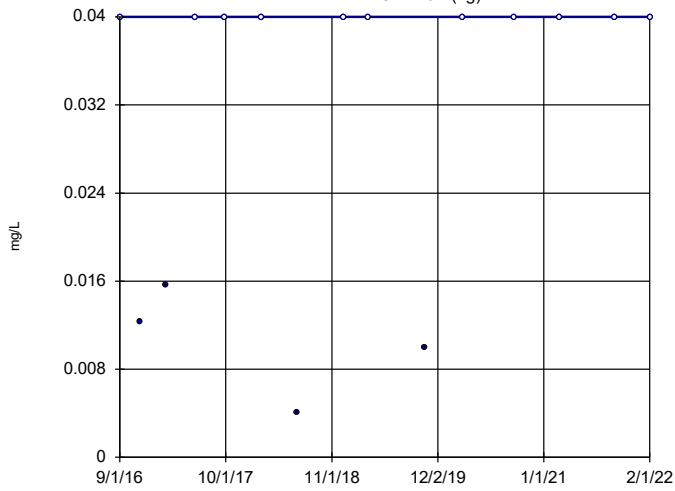
Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 3/11/2022, 12:59 PM

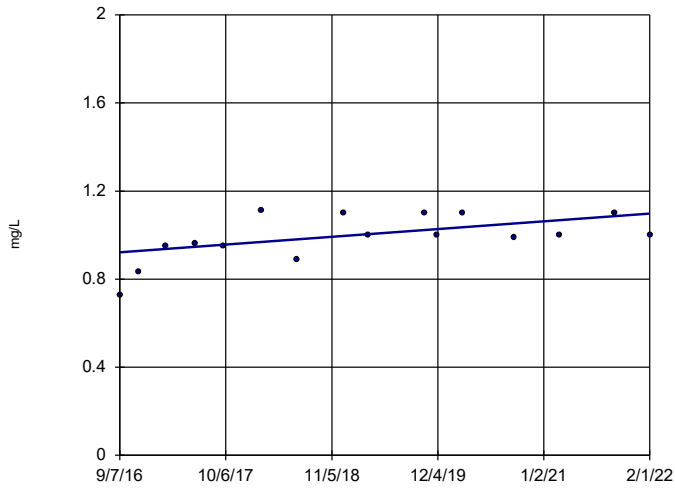
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.003356	31	53	No	15	26.67	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	10	53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	7	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	18	53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-5	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	1	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1835	83	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.03249	48	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.0661	-43	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.6672	48	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.04148	15	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0	2	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4361	-27	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1798	62	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	1.731	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-33S	-3.487	-53	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-4.32	-67	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	2.149	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-0.263	-18	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-38S	-1.803	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.06183	-41	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	-0.03836	-34	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.2086	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.08614	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-6S (bg)	-0.03205	-24	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.1682	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-33S	-0.09171	-7	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2751	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.037	15	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	1.02	69	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-38S	0.07444	9	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-18	-63	No	17	47.06	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0	42	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0	49	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	-0.005085	-27	-63	No	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.0003717	48	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0.02104	33	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.1124	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03283	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5I (bg)	-0.02424	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05509	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-6S (bg)	-0.0009881	-2	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.006772	-28	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-34S	0.00996	23	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	0.001802	2	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	0.01714	8	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.1481	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2041	-31	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-2	-53	No	15	40	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.3476	-39	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.08161	-49	-53	No	15	40	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01199	-21	-53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	3.842	34	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-33S	-23.05	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-35.6	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-35S	-2.831	-26	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-14.05	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-36	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-5.671	-21	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	2.173	17	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.555	-23	-53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-6.868	-52	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.765	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	1.862	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-53.52	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	1.633	7	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-16.09	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-47.27	-87	-53	Yes	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

BRGWA-6S (bg)

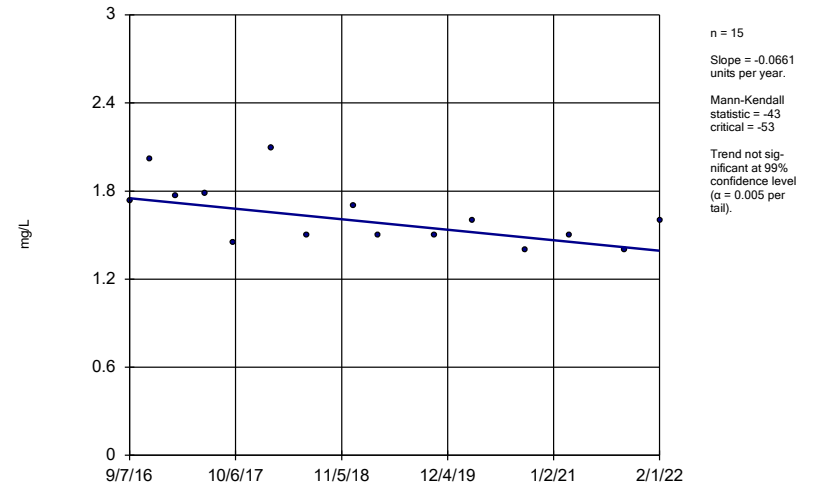


Sen's Slope Estimator
BRGWC-36S



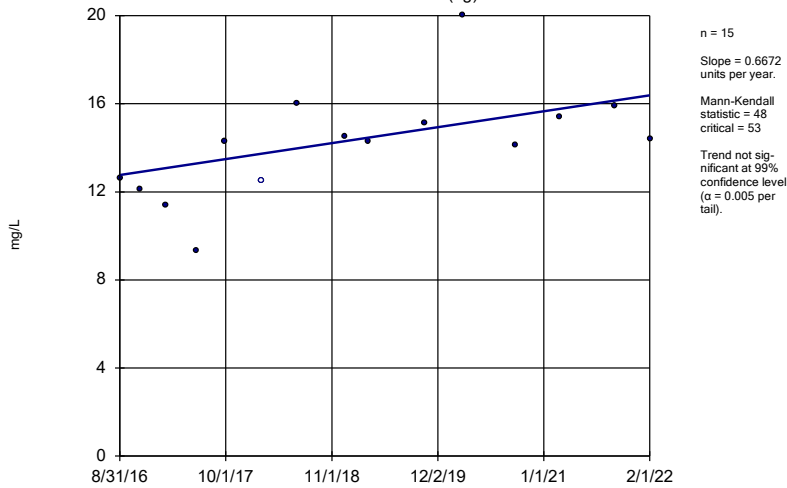
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Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-38S



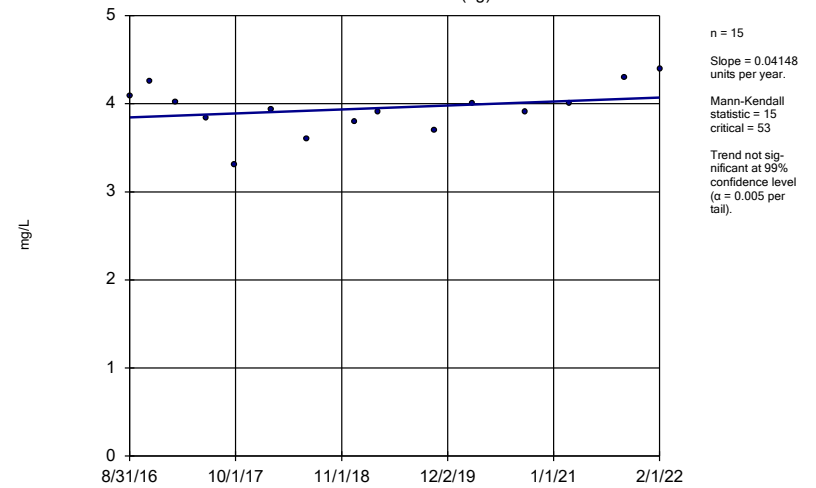
Constituent: Boron Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2I (bg)



Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

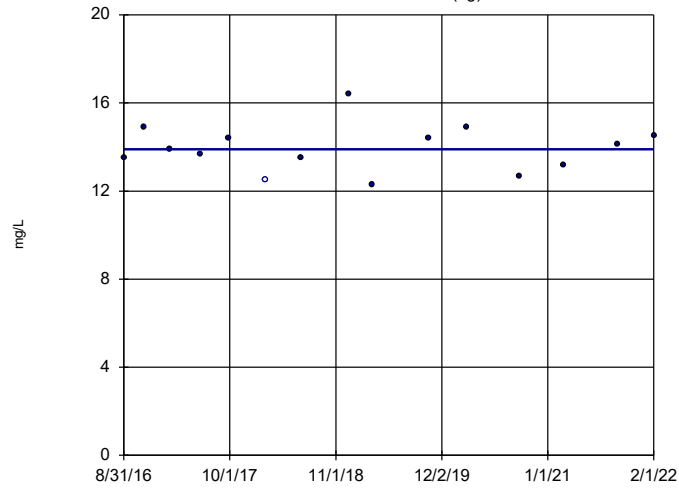
Sen's Slope Estimator
BRGWA-2S (bg)



Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

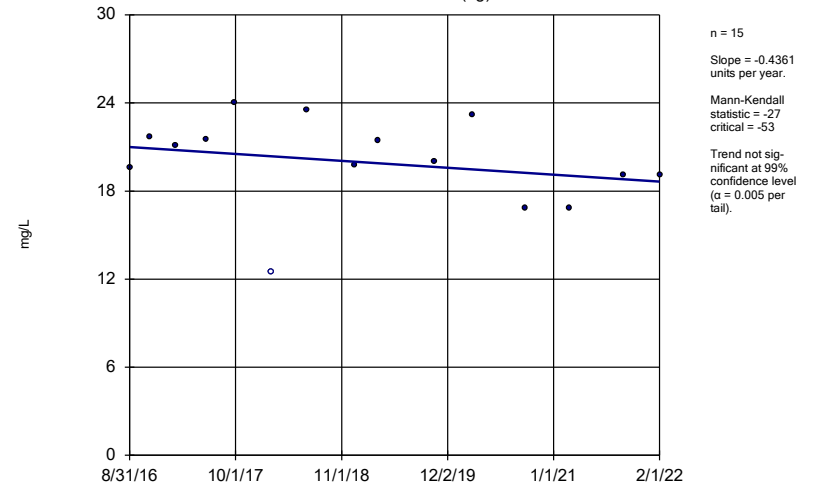
BRGWA-5I (bg)



Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

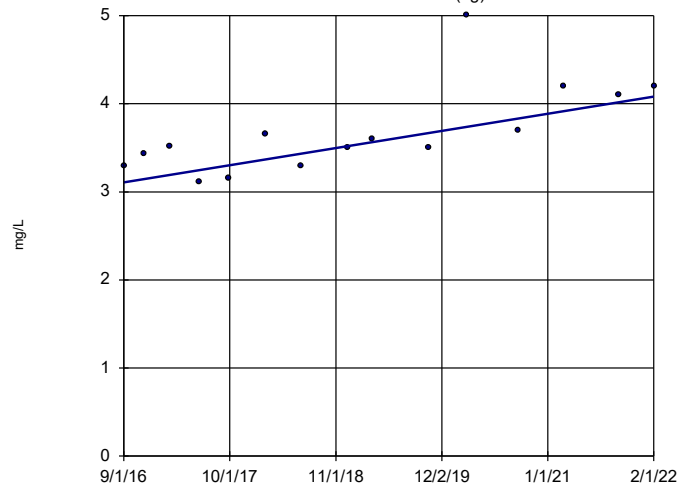
BRGWA-5S (bg)



Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

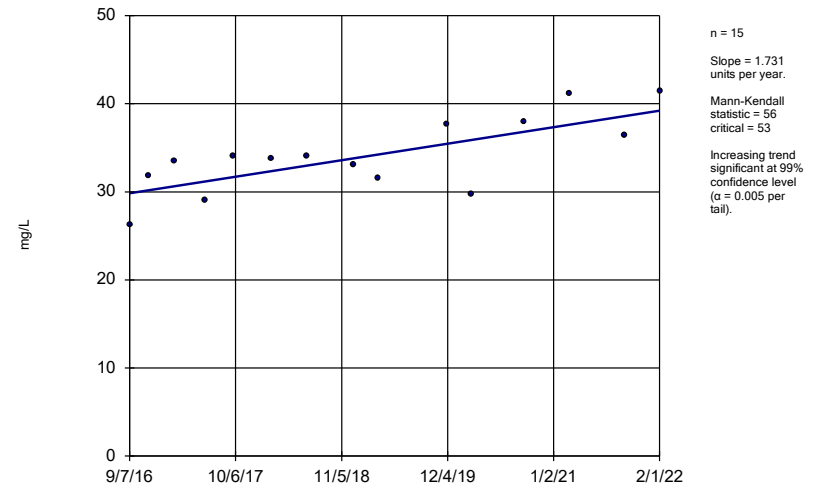
BRGWA-6S (bg)



Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

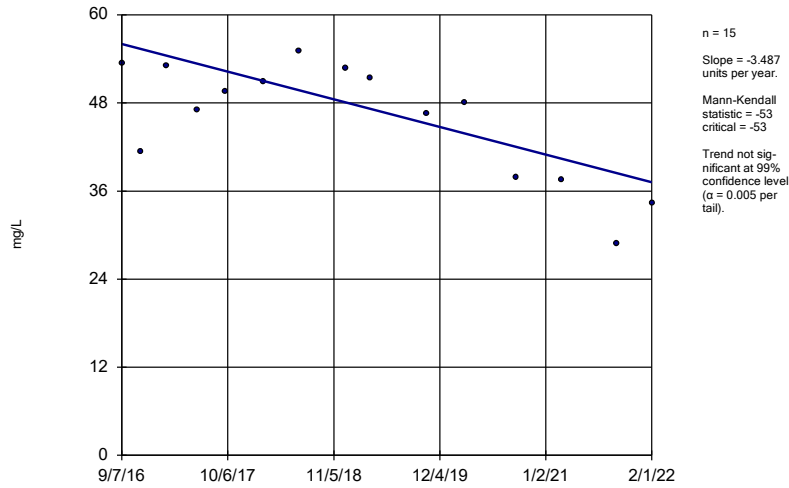
Sen's Slope Estimator

BRGWC-17S



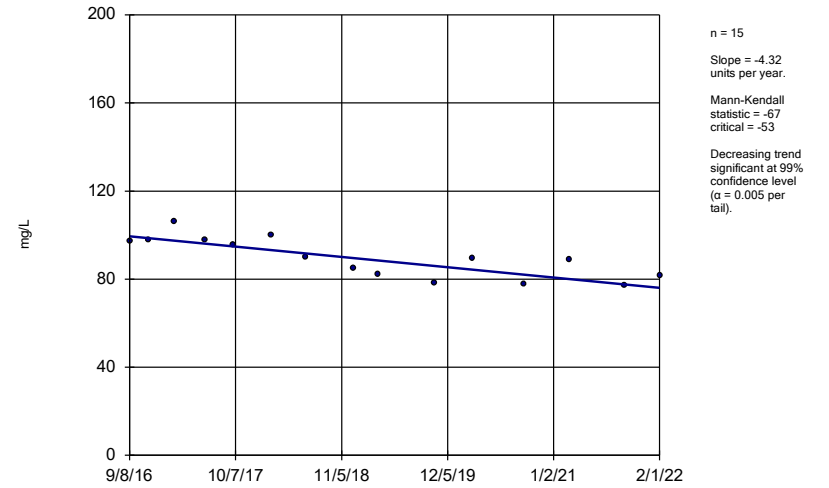
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-33S



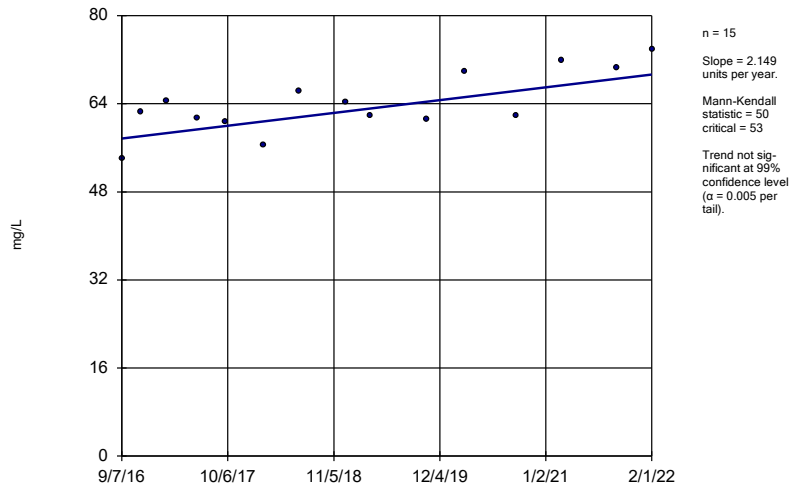
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-34S



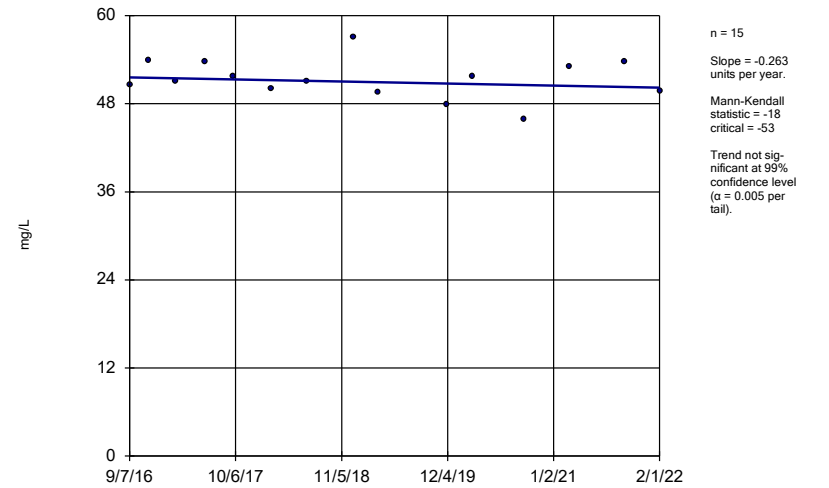
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-35S



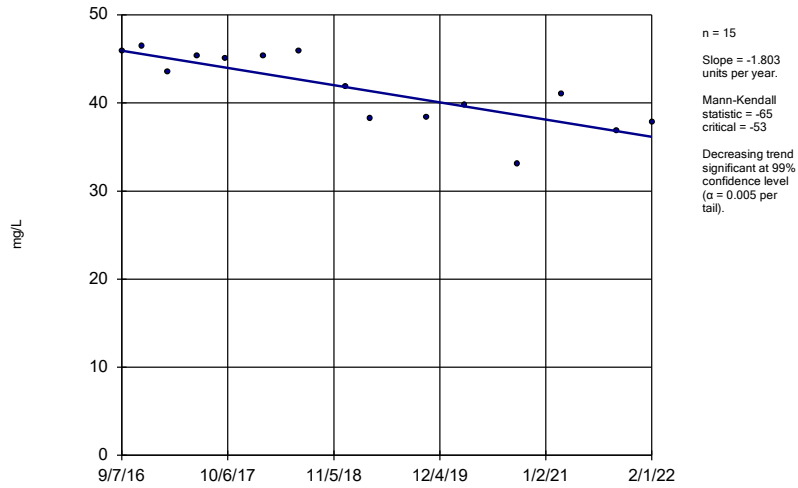
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-36S



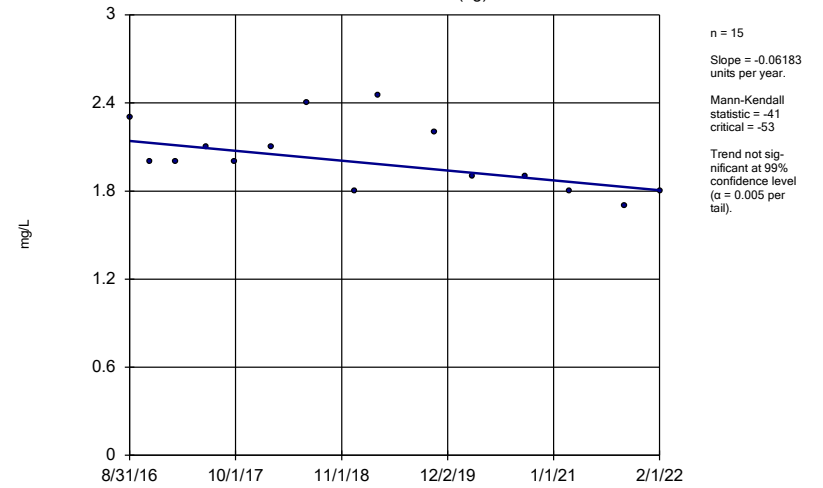
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-38S



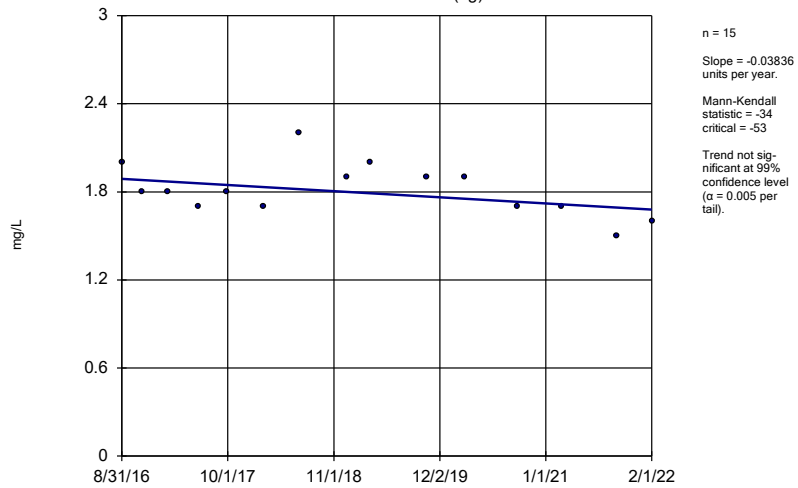
Constituent: Calcium Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2I (bg)



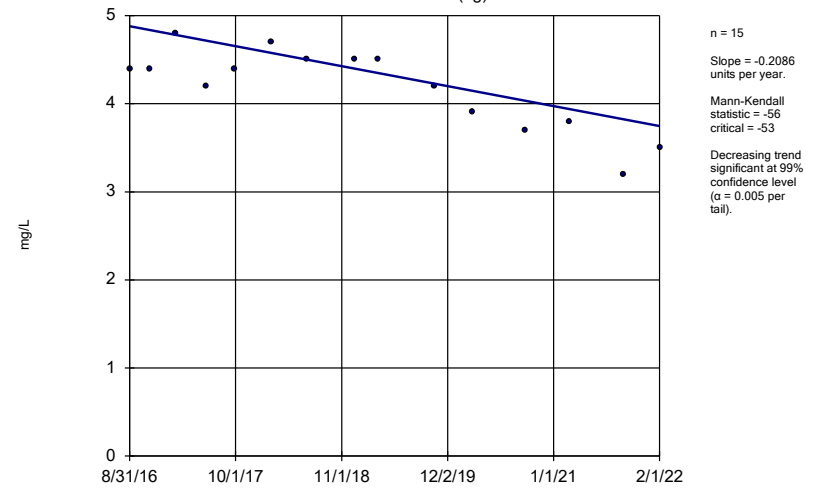
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-2S (bg)



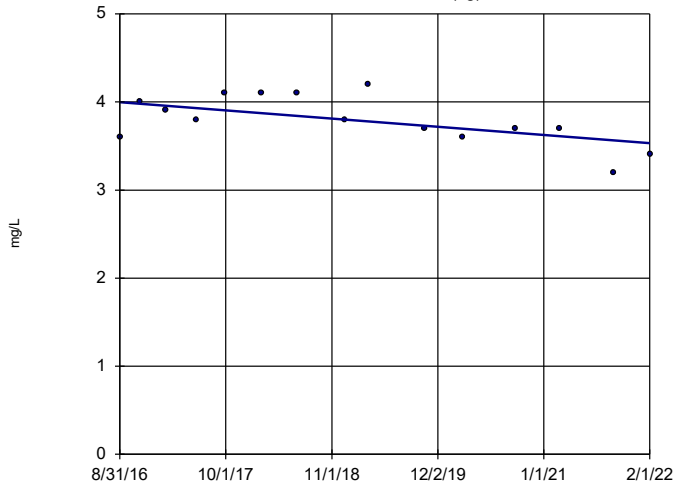
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWA-5I (bg)



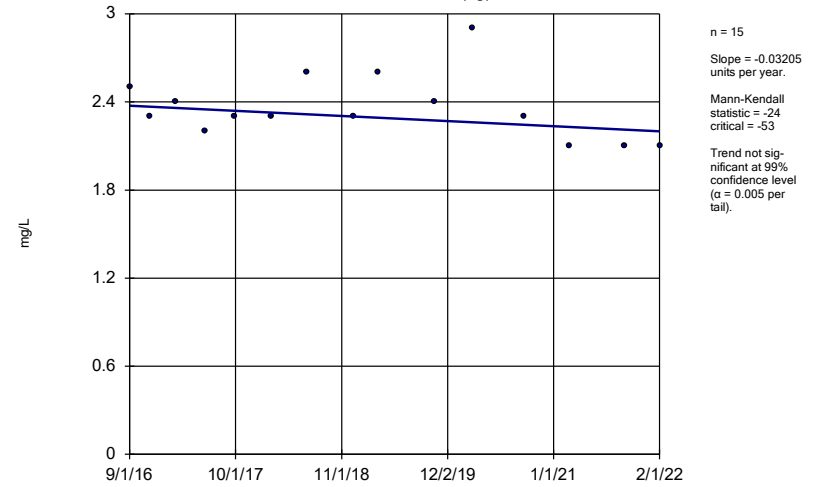
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWA-5S (bg)



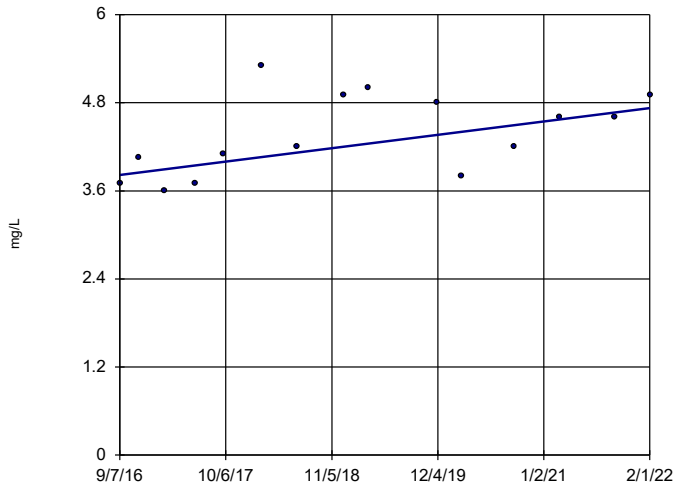
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWA-6S (bg)



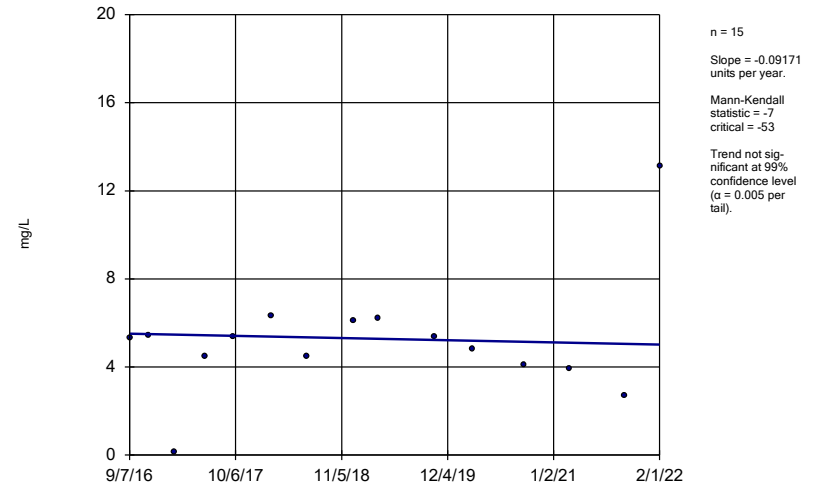
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-17S



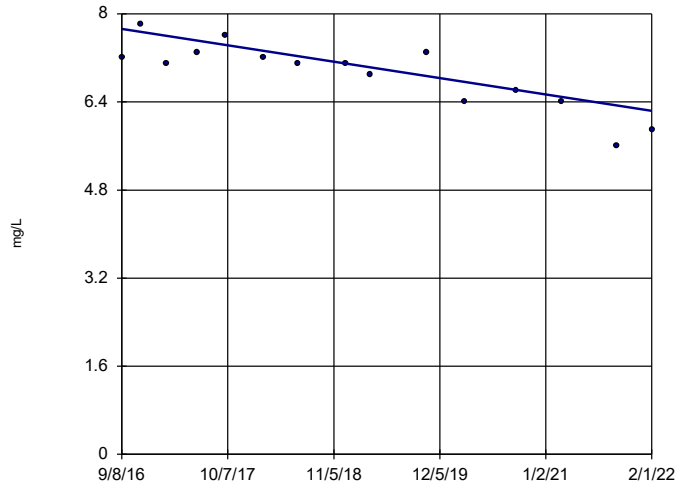
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-33S



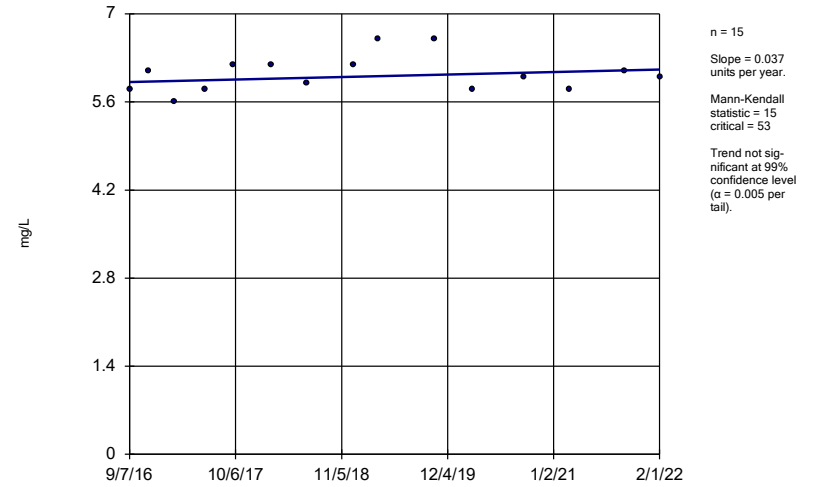
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-34S



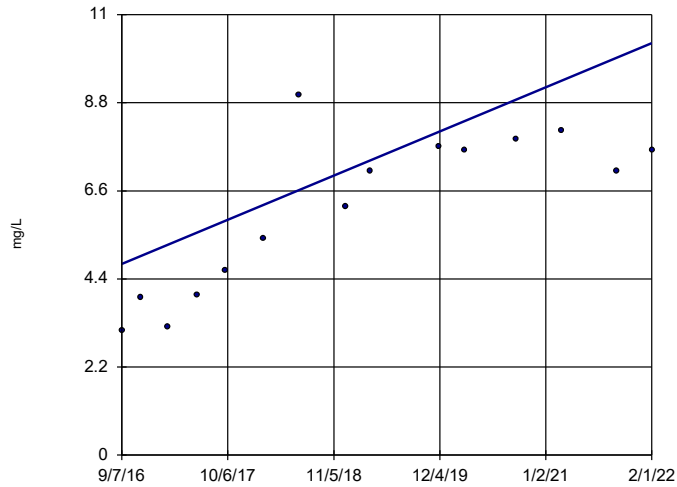
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-35S



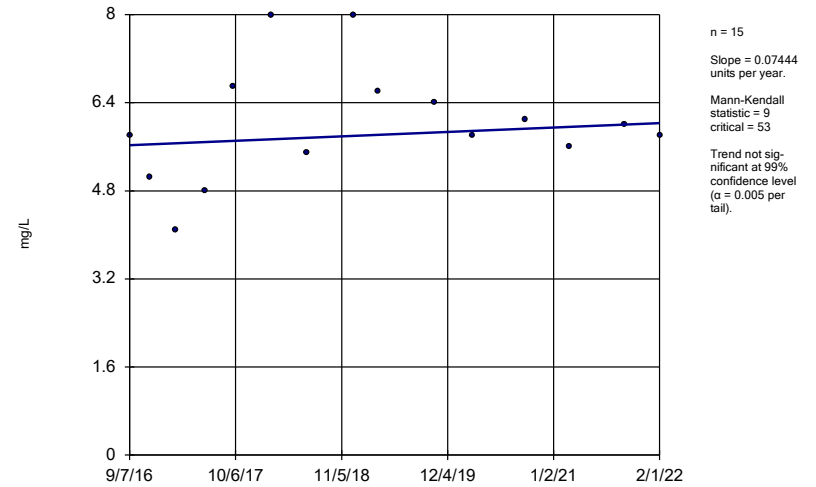
Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-36S



Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

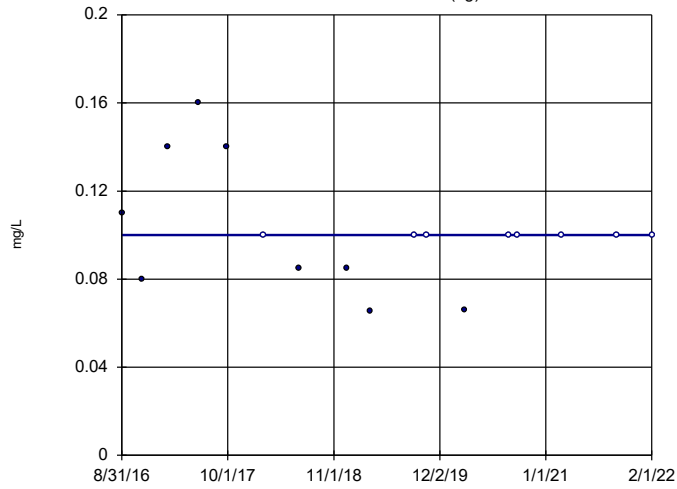
Sen's Slope Estimator
BRGWC-38S



Constituent: Chloride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

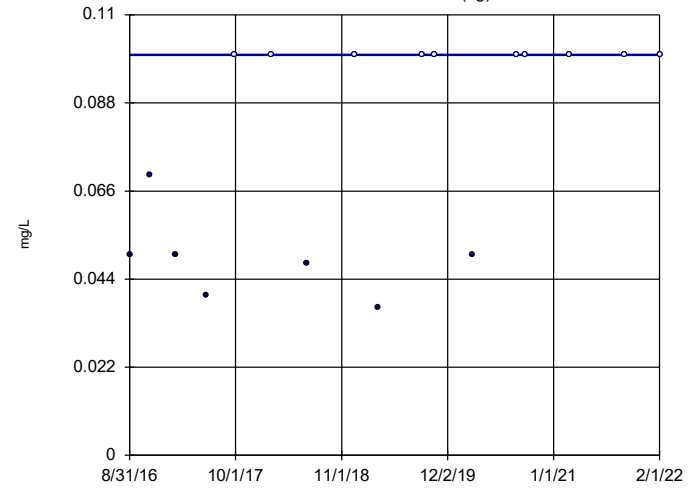


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = -18
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/11/2022 12:51 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

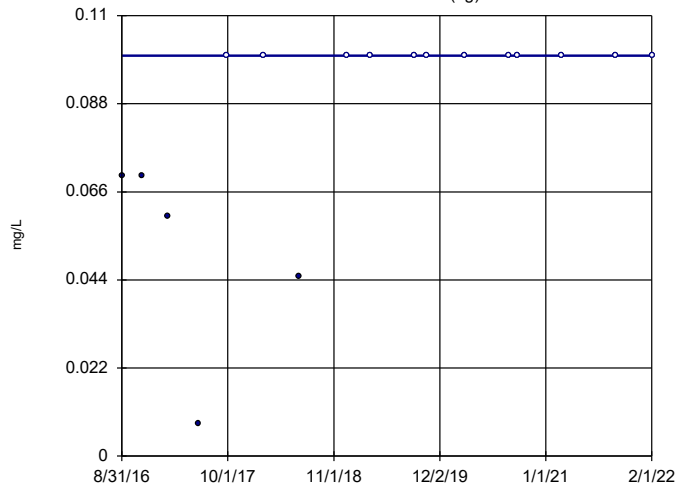


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 42
critical = 63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

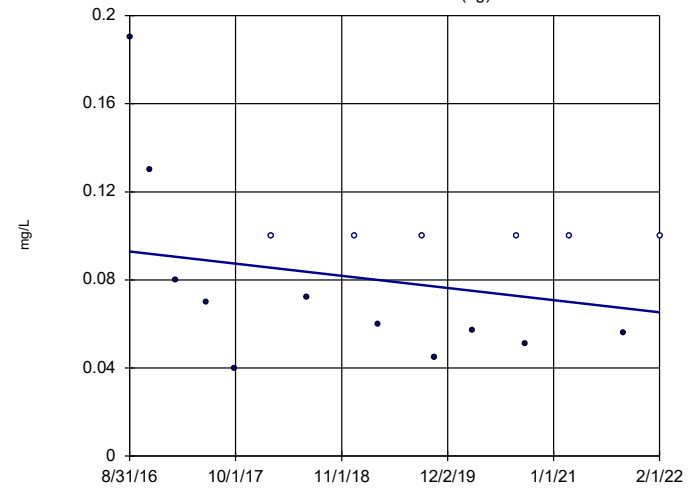


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 49
critical = 63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

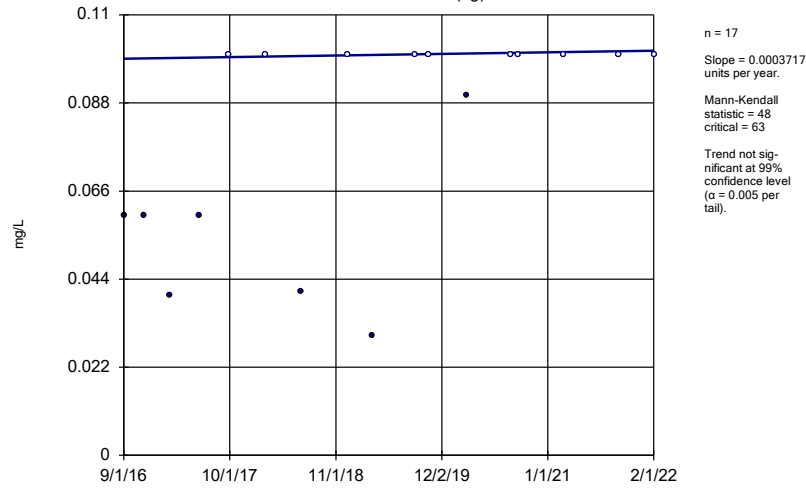
BRGWA-5S (bg)



n = 17
Slope = -0.005085
units per year.
Mann-Kendall
statistic = -27
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

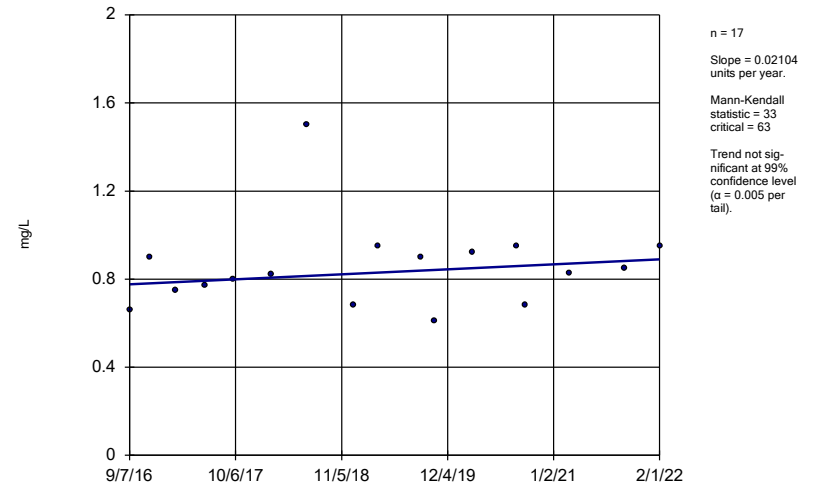
Constituent: Fluoride Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
 BRGWA-6S (bg)



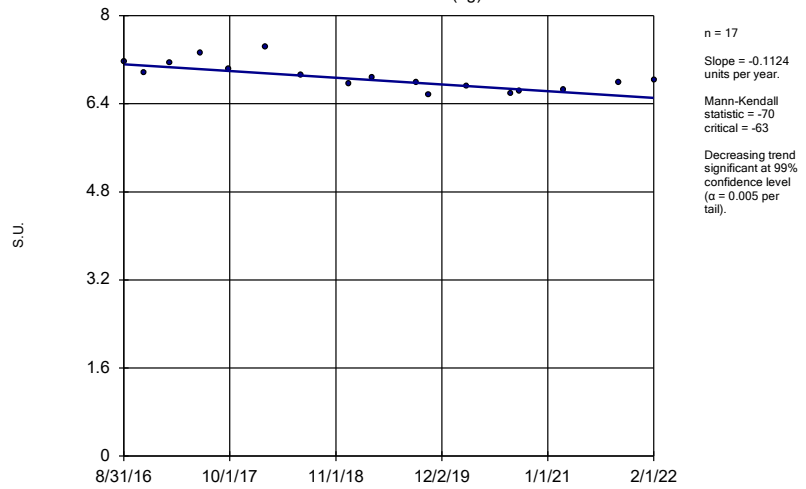
Constituent: Fluoride Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
 BRGWC-38S



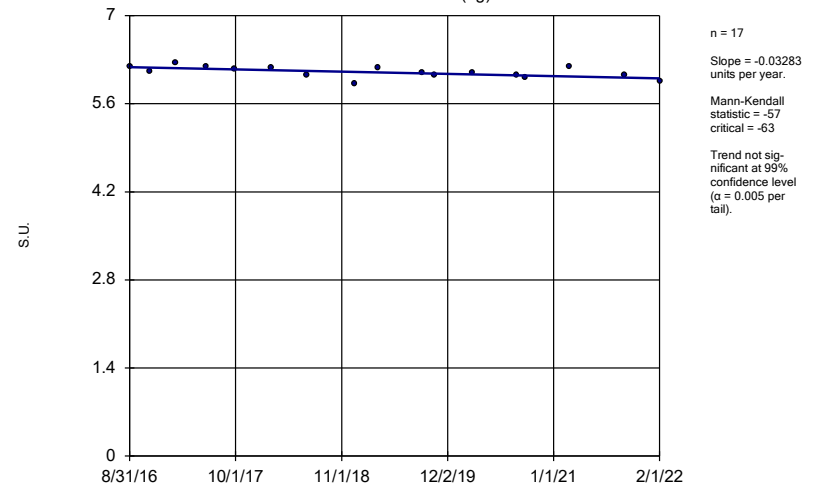
Constituent: Fluoride Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
 BRGWA-2I (bg)



Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

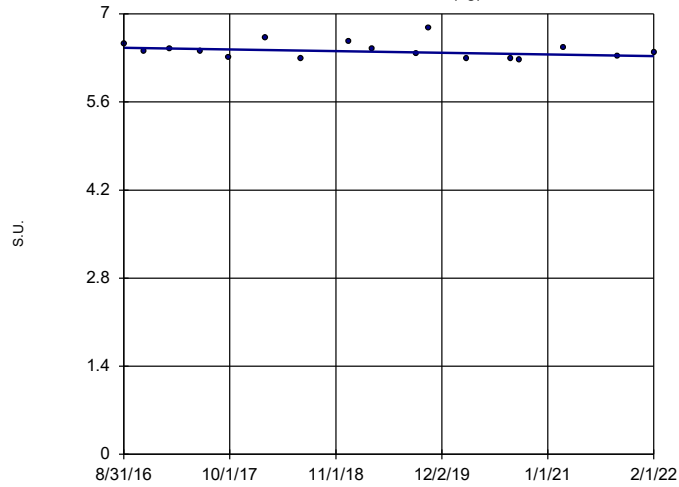
Sen's Slope Estimator
 BRGWA-2S (bg)



Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

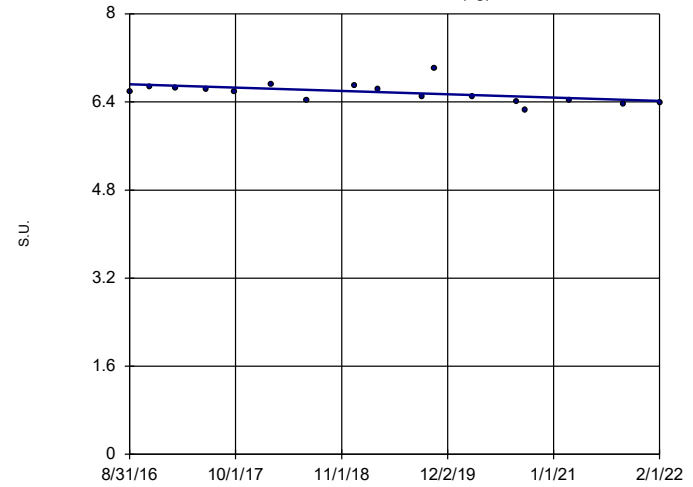


n = 17
 Slope = -0.02424
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

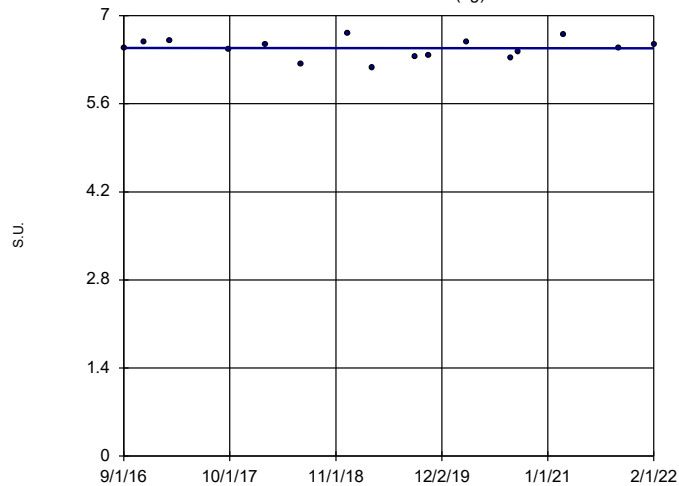


n = 17
 Slope = -0.05509
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

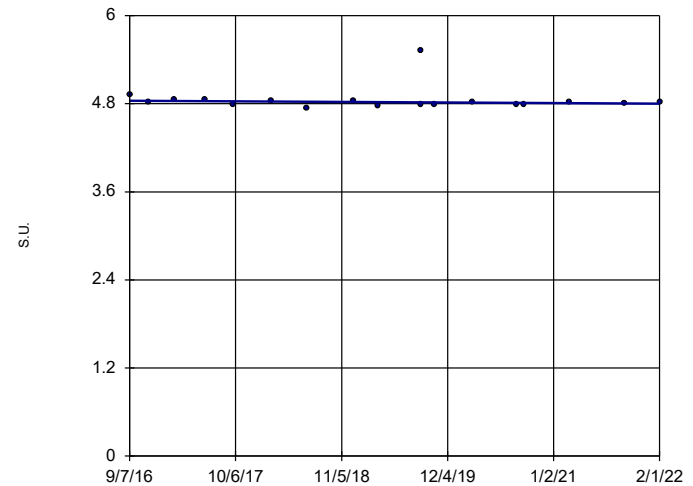


n = 16
 Slope = -0.0009881
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-33S

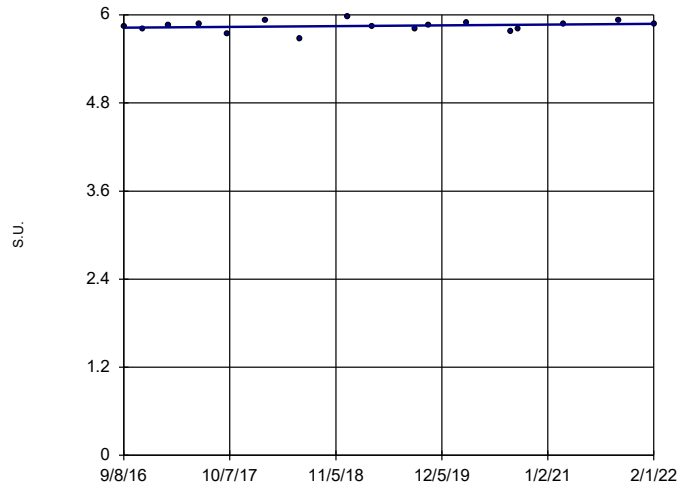


n = 18
 Slope = -0.006772
 units per year.
 Mann-Kendall
 statistic = -28
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-34S

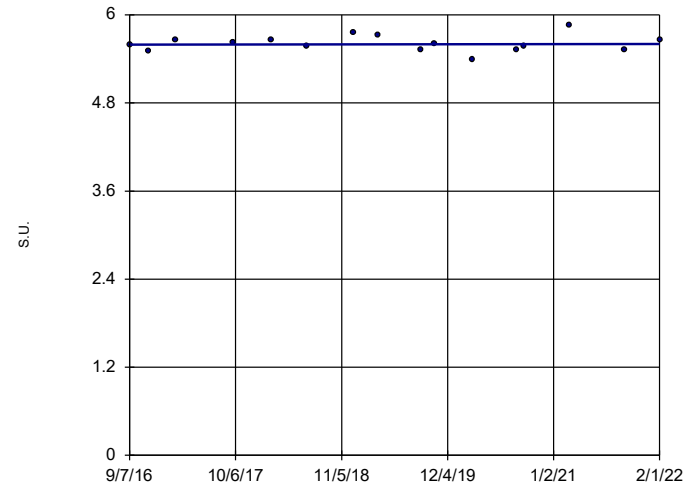


n = 17
 Slope = 0.00996 units per year.
 Mann-Kendall statistic = 23
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-36S

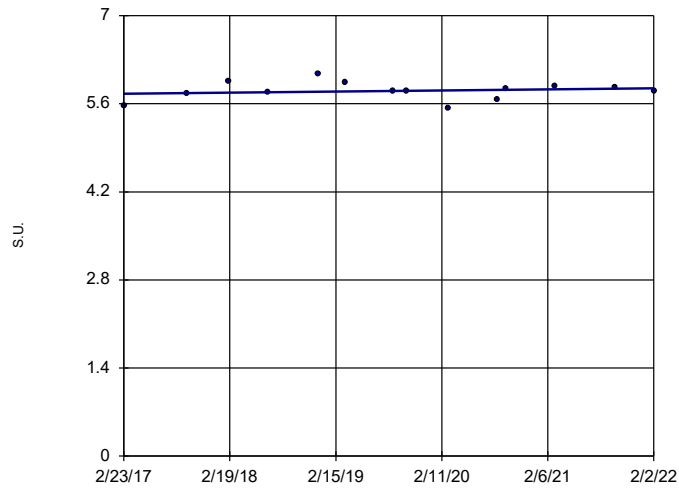


n = 16
 Slope = 0.001802 units per year.
 Mann-Kendall statistic = 2
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-37S

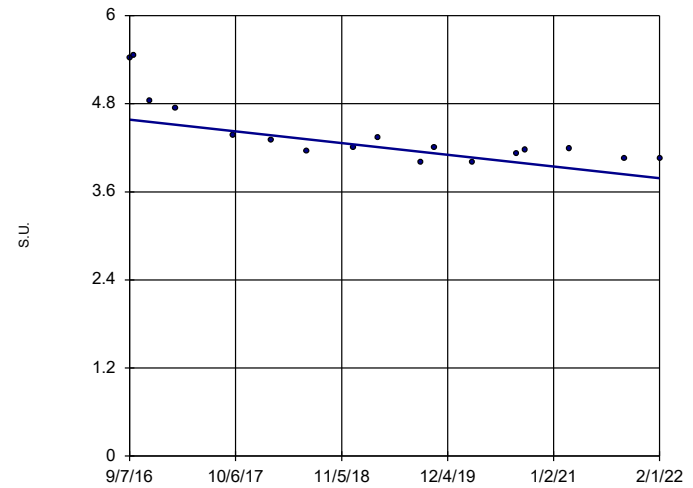


n = 14
 Slope = 0.01714 units per year.
 Mann-Kendall statistic = 8
 critical = 48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

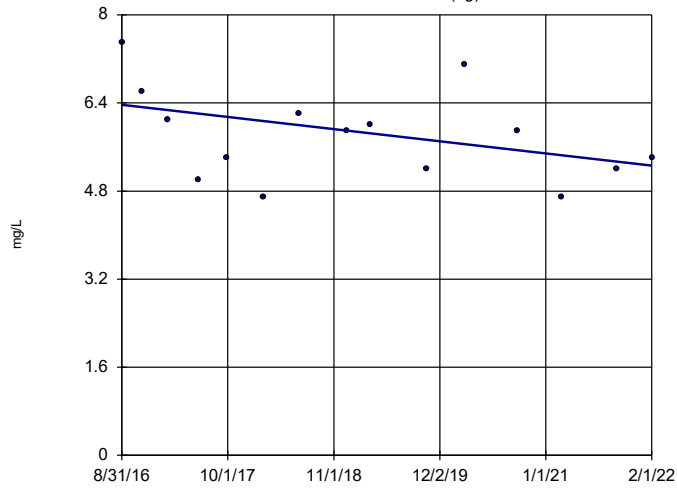


n = 17
 Slope = -0.1481 units per year.
 Mann-Kendall statistic = -88
 critical = -63
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

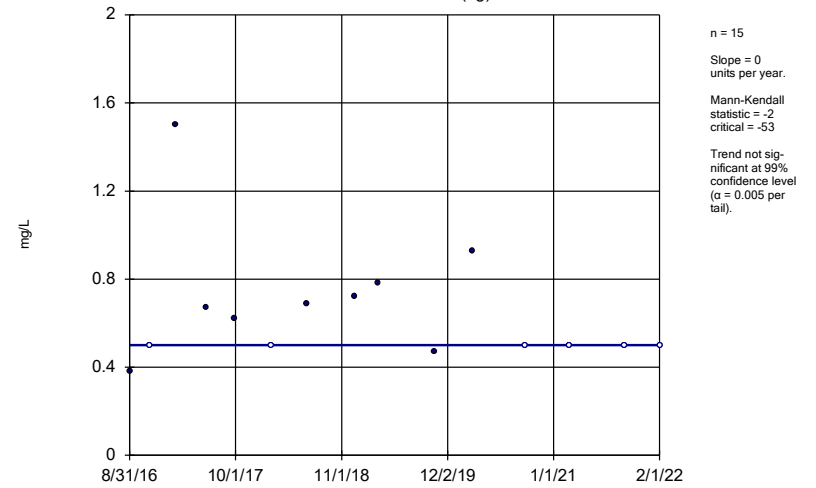


Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

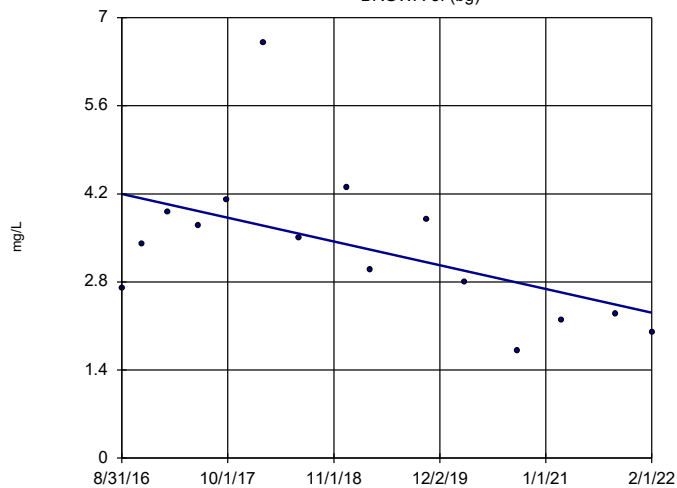
BRGWA-2S (bg)



Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

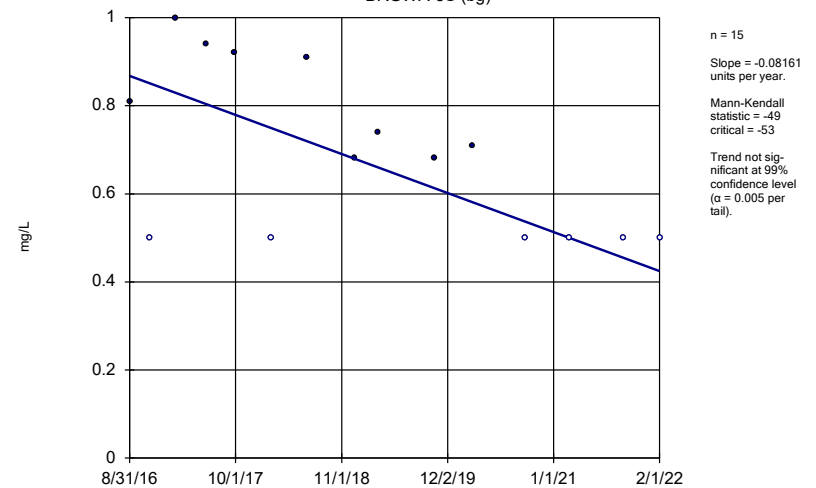


Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

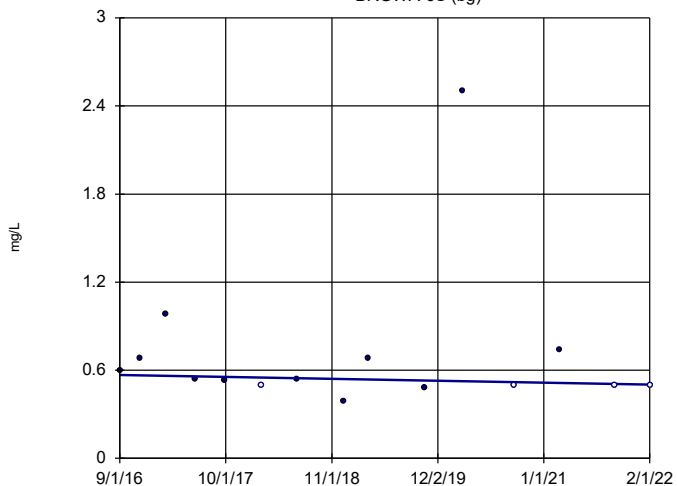
BRGWA-5S (bg)



Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

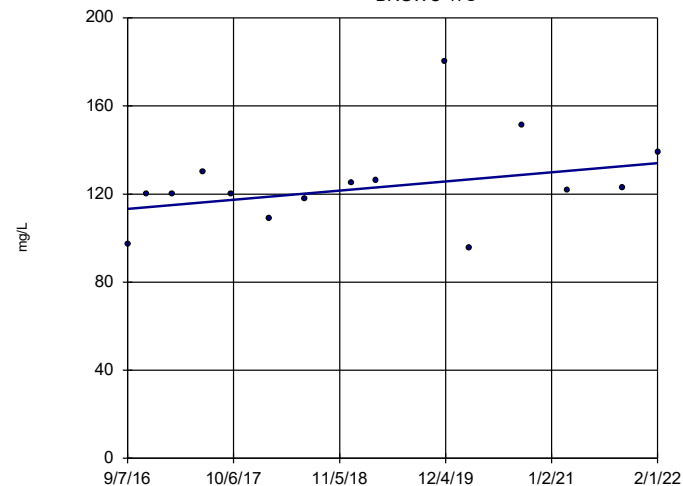


n = 15
Slope = -0.01199 units per year.
Mann-Kendall statistic = -21
critical = -53
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-17S

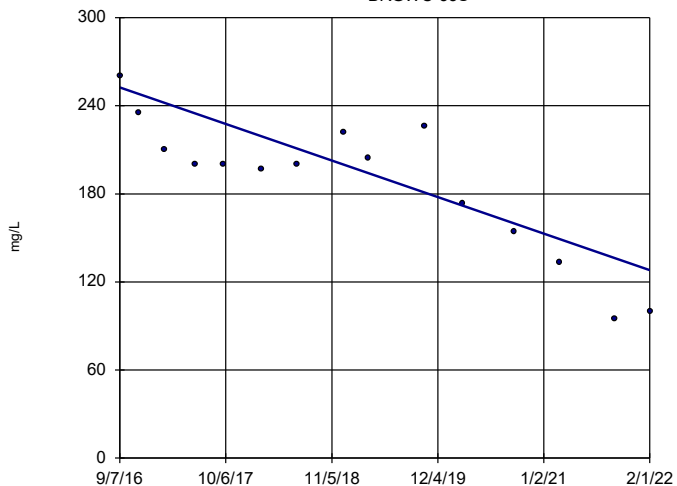


n = 15
Slope = 3.842 units per year.
Mann-Kendall statistic = 34
critical = 53
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-33S

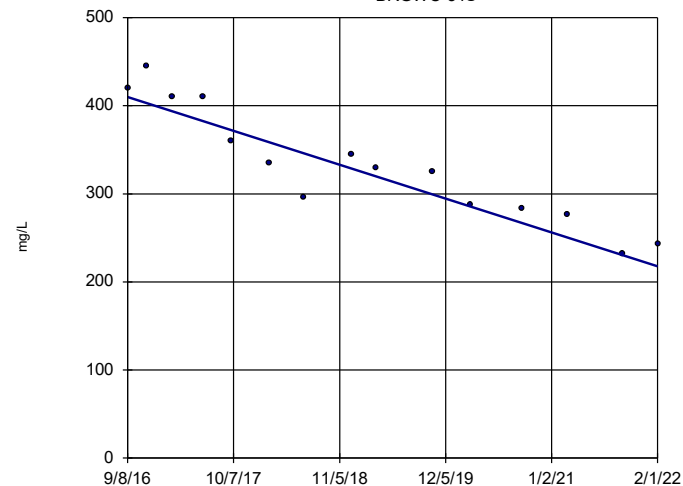


n = 15
Slope = -23.05 units per year.
Mann-Kendall statistic = -66
critical = -53
Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

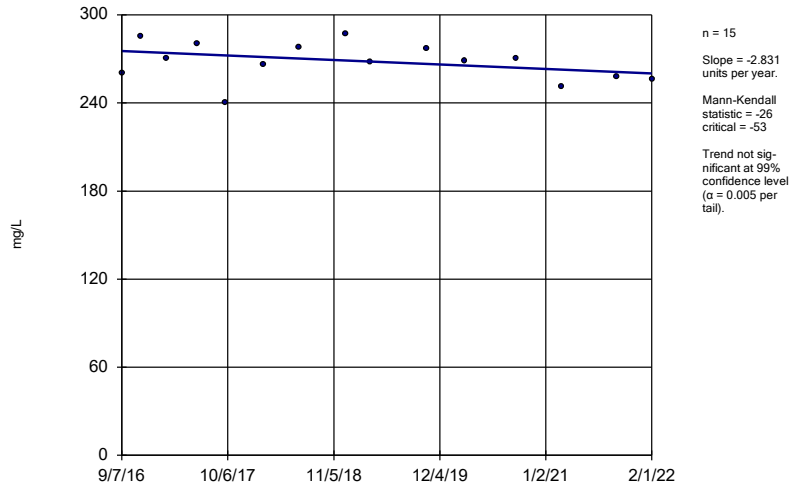
Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-34S

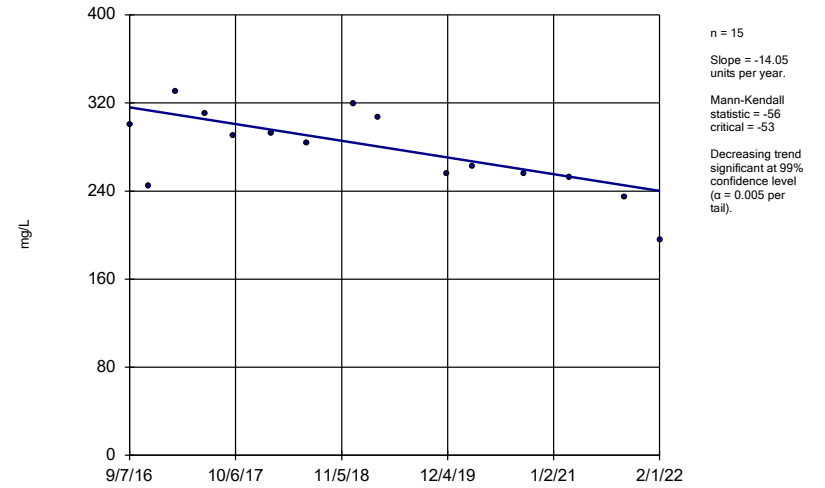


Sen's Slope Estimator
BRGWC-35S



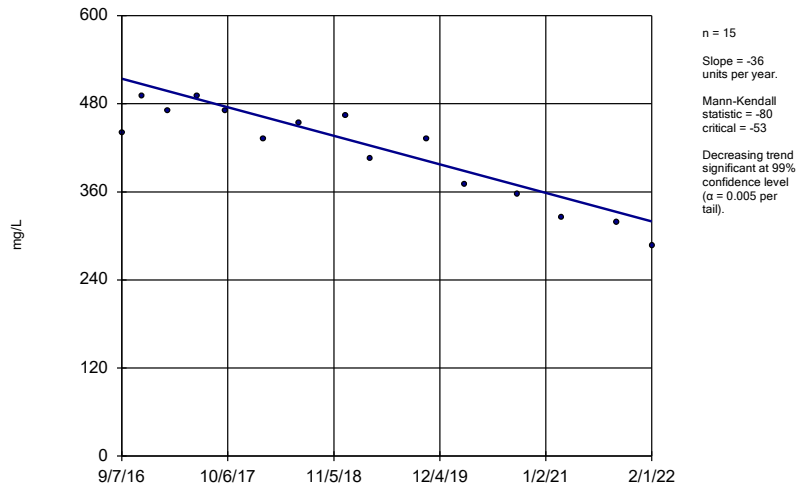
Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-36S



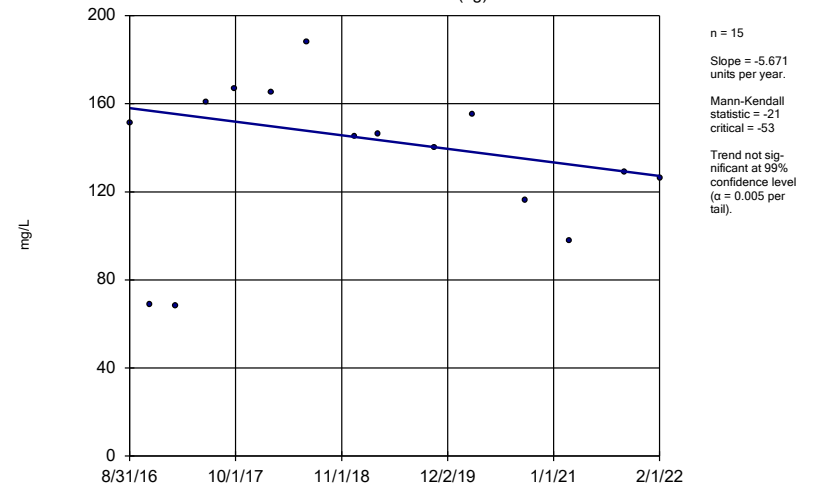
Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-38S



Constituent: Sulfate Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

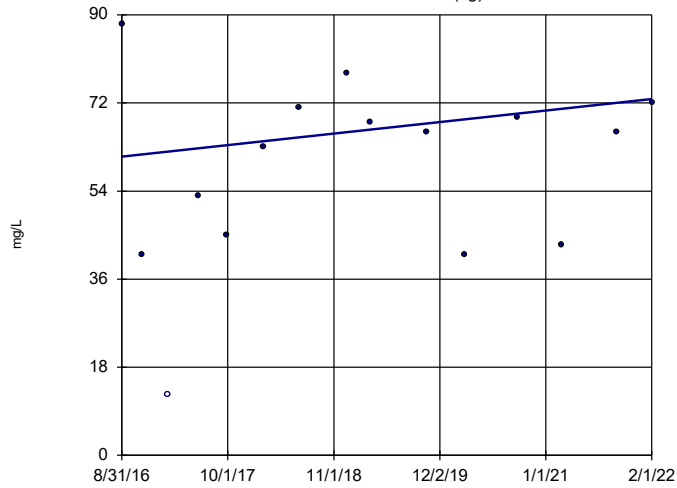
Sen's Slope Estimator
BRGWA-2I (bg)



Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

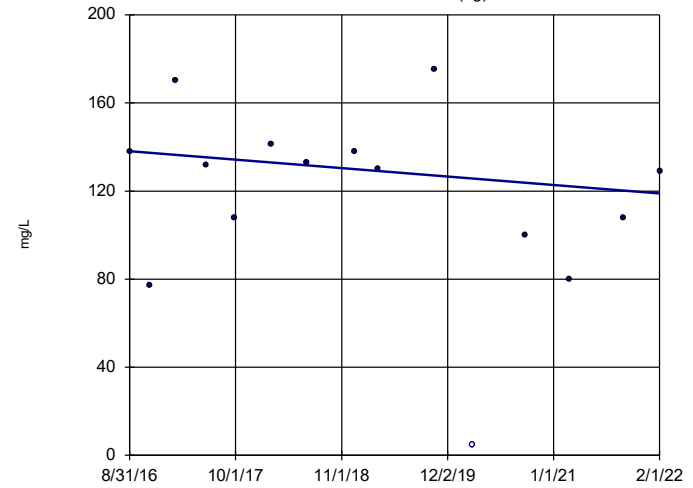


n = 15
Slope = 2.173 units per year.
Mann-Kendall statistic = 17
critical = 53
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

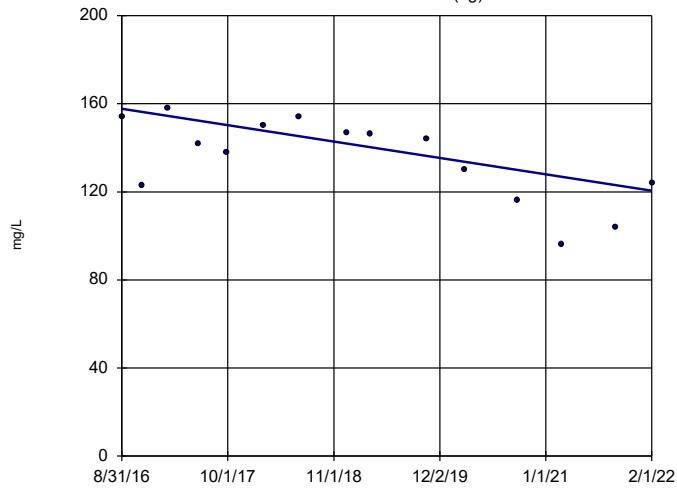


n = 15
Slope = -3.555 units per year.
Mann-Kendall statistic = -23
critical = -53
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

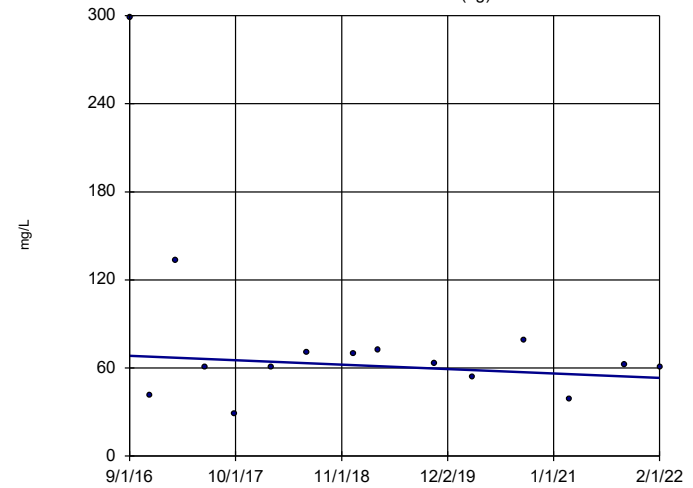


n = 15
Slope = -6.868 units per year.
Mann-Kendall statistic = -52
critical = -53
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

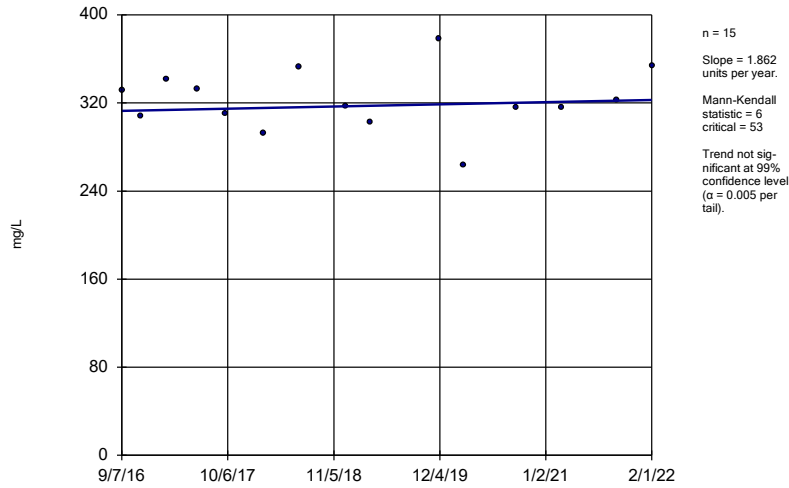
BRGWA-6S (bg)



n = 15
Slope = -2.765 units per year.
Mann-Kendall statistic = -14
critical = -53
Trend not significant at 99% confidence level (α = 0.005 per tail).

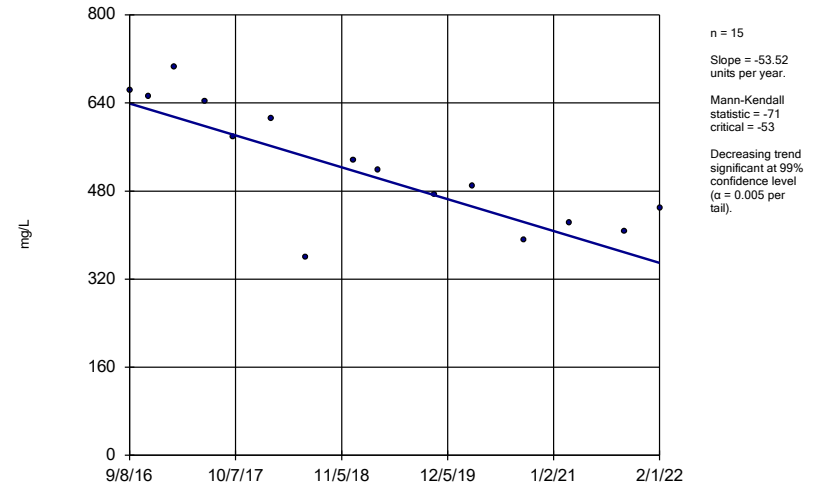
Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-17S



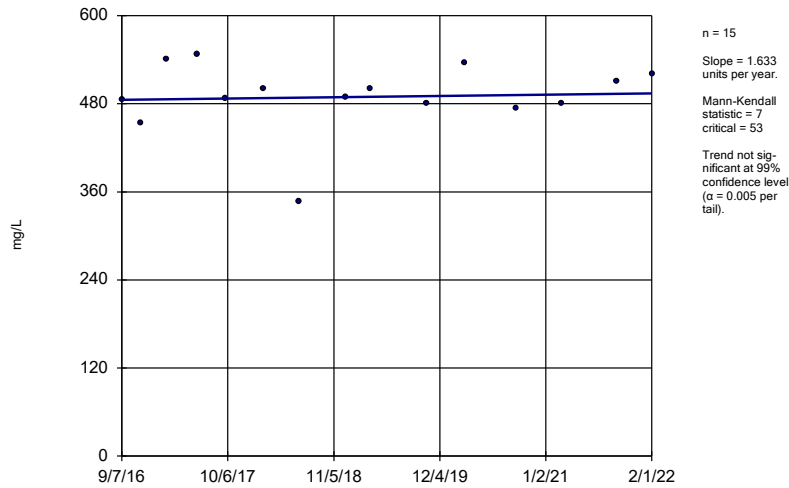
Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-34S



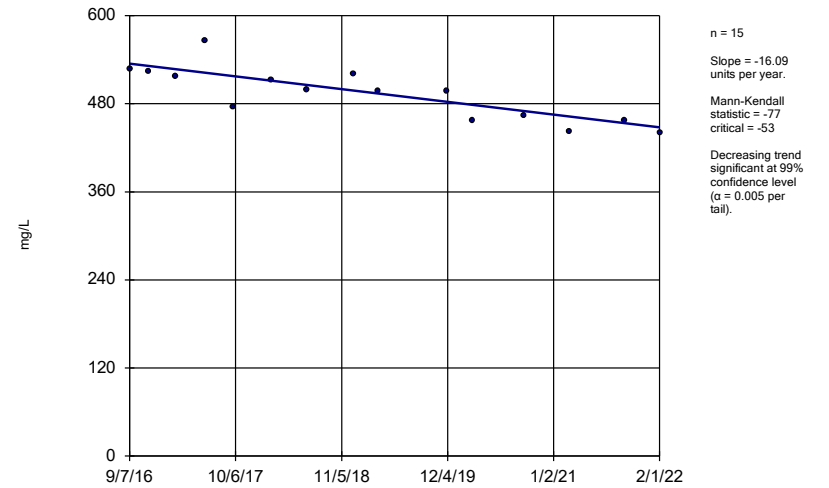
Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-35S



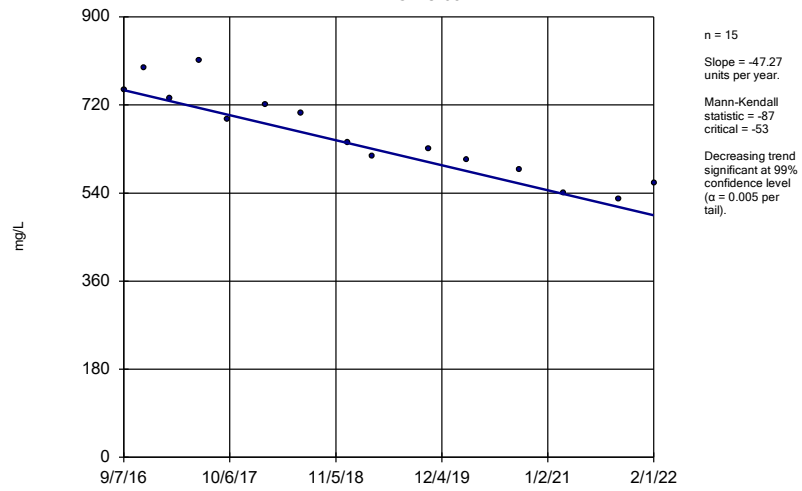
Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator
BRGWC-36S



Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator BRGWC-38S



Constituent: Total Dissolved Solids Analysis Run 3/11/2022 12:52 PM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	80	n/a	n/a	91.25	n/a	n/a	0.01652	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	80	n/a	n/a	75	n/a	n/a	0.01652	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	n/a	80	n/a	n/a	0	n/a	n/a	0.01652	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	80	n/a	n/a	15	n/a	n/a	0.01652	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	78	n/a	n/a	46.15	n/a	n/a	0.0183	NP Inter(normality)
Fluoride (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	85	n/a	n/a	54.12	n/a	n/a	0.01278	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	80	n/a	n/a	78.75	n/a	n/a	0.01652	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	80	n/a	n/a	42.5	n/a	n/a	0.01652	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	70	n/a	n/a	85.71	n/a	n/a	0.02758	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	80	n/a	n/a	68.75	n/a	n/a	0.01652	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	80	n/a	n/a	100	n/a	n/a	0.01652	NP Inter(NDs)

FIGURE G.

PLANT BRANCH POND E GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.0013	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	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	BRGWC-38S	0.009429	0.007947	0.004	Yes	17	0.008688	0.001183	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05147	0.03704	0.006	Yes	17	0.04425	0.01152	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-38S	0.2574	0.2077	0.006	Yes	16	0.2326	0.0382	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0006	0.006	No	16	0.00244	0.001034	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	16	0.002688	0.0008547	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	16	0.002725	0.0007523	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.00073	0.01	No	16	0.004076	0.001758	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.005	0.0006	0.01	No	17	0.00448	0.001468	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	16	0.004152	0.001822	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	16	0.004197	0.00173	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.00078	0.01	No	16	0.004162	0.001802	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003716	0.001844	0.01	No	16	0.00278	0.001439	12.5	None	No	0.01	Param.
Barium (mg/L)	BRGWC-17S	0.04297	0.03881	2	No	16	0.04089	0.003197	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.02252	0.02022	2	No	17	0.02137	0.001831	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-34S	0.03384	0.02478	2	No	16	0.02953	0.00716	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0701	0.034	2	No	16	0.04851	0.0193	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04353	0.03178	2	No	16	0.03832	0.01057	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02513	0.02307	2	No	16	0.0241	0.001583	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0338	0.015	2	No	16	0.02167	0.009964	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.0021	0.0014	0.004	No	17	0.001935	0.0008448	5.882	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-34S	0.0002	0.00012	0.004	No	16	0.000745	0.001661	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00016	0.0001	0.004	No	16	0.0007387	0.001664	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.005	0.000084	0.004	No	17	0.001248	0.002146	23.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-38S	0.009429	0.007947	0.004	Yes	17	0.008688	0.001183	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004468	0.0003061	0.005	No	17	0.0003765	0.0001123	5.882	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004701	0.0002079	0.005	No	16	0.000355	0.0002217	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0005	0.0001	0.005	No	17	0.0004518	0.0001362	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0006137	0.0004963	0.005	No	16	0.000555	0.00009018	6.25	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-17S	0.01278	0.00989	0.1	No	16	0.01139	0.00236	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.005	0.00049	0.1	No	17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006568	0.004294	0.1	No	16	0.005431	0.001748	6.25	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008366	0.007184	0.1	No	16	0.007775	0.0009081	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.0018	0.0014	0.1	No	16	0.002162	0.001422	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004147	0.003452	0.1	No	16	0.003706	0.0007637	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BRGWC-33S	0.05147	0.03704	0.006	Yes	17	0.04425	0.01152	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-34S	0.004648	0.003304	0.006	No	16	0.004025	0.001146	6.25	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.005	0.0008	0.006	No	16	0.00375	0.00196	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-38S	0.2574	0.2077	0.006	Yes	16	0.2326	0.0382	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.1295	0.07959	4	No	17	0.1092	0.04531	5.882	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.227	0.1032	4	No	18	0.1746	0.1147	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1434	0.07412	4	No	17	0.1203	0.08469	5.882	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1233	0.06137	4	No	17	0.1028	0.07438	11.76	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.15	0.054	4	No	17	0.115	0.1094	52.94	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	17	0.07941	0.02759	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9507	0.7353	4	No	17	0.8541	0.199	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.001	0.0001	0.015	No	16	0.0008846	0.0003154	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.001	0.00007	0.015	No	17	0.0003692	0.0004218	29.41	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.001	0.0003	0.015	No	16	0.0008431	0.00034	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.001	0.00012	0.015	No	16	0.0007825	0.0003897	75	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.001	0.000047	0.015	No	16	0.0009404	0.0002383	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.001	0.0001	0.015	No	16	0.0008875	0.0003074	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00034	0.015	No	16	0.0004688	0.0002151	12.5	None	x	0.01	NP (normality)
Lithium (mg/L)	BRGWC-17S	0.03	0.00097	0.089	No	16	0.0173	0.01487	56.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01022	0.009095	0.089	No	17	0.009659	0.0009	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.03	0.00085	0.089	No	16	0.01907	0.01457	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0022	0.002	0.089	No	16	0.002138	0.00008062	0	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.0026	0.0023	0.089	No	16	0.004175	0.006888	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02242	0.02028	0.089	No	16	0.02135	0.001643	0	None	No	0.01	Param.

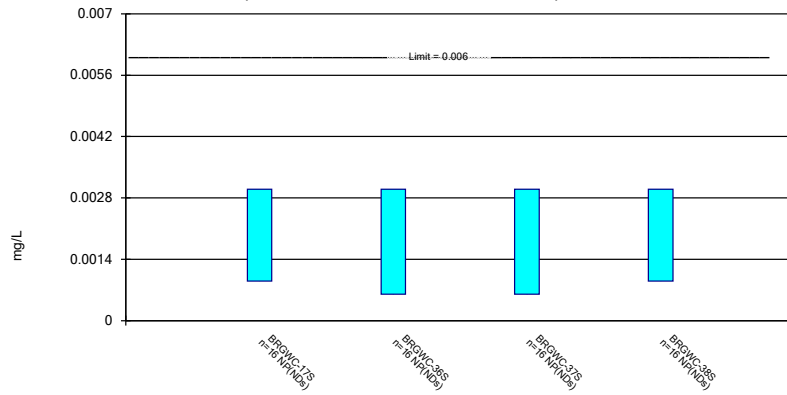
Confidence Intervals - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/3/2022, 8:18 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	14	0.0001746	0.00005114	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	15	0.0001753	0.0000533	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00012	0.002	No	14	0.00017	0.00005463	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	14	0.0001793	0.00004287	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	14	0.0001786	0.00004418	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	14	0.0001793	0.00004411	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001803	0.000109	0.002	No	14	0.0001446	0.00005032	14.29	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.002624	0.00175	0.05	No	16	0.003025	0.001347	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.005	0.0028	0.05	No	17	0.003982	0.001231	52.94	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-36S	0.005193	0.003031	0.05	No	16	0.0042	0.001801	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.04143	0.03287	0.05	No	16	0.03715	0.006579	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00024	0.00018	0.002	No	17	0.00029	0.000268	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.00019	0.002	No	16	0.0004331	0.0003431	25	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

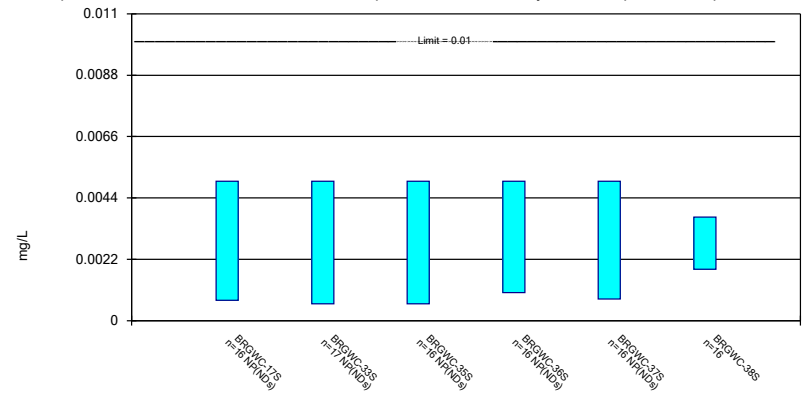
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

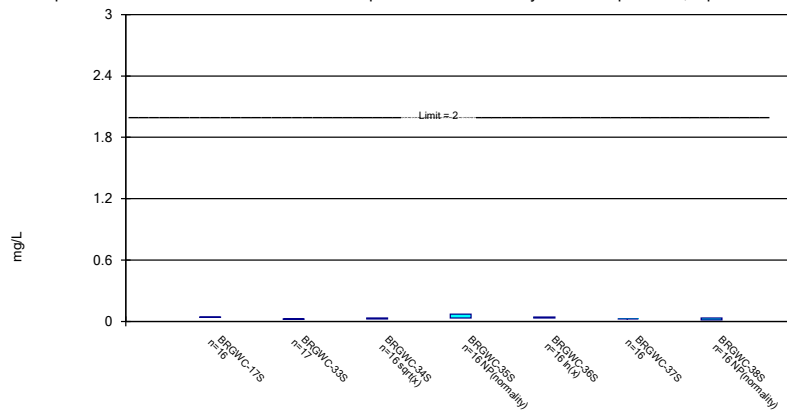
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

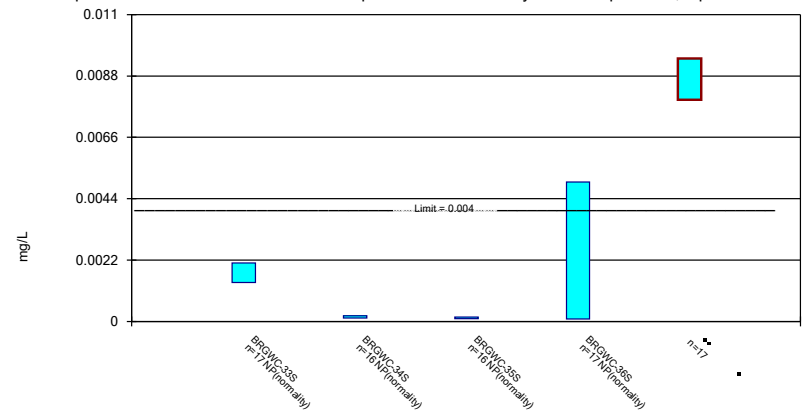
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

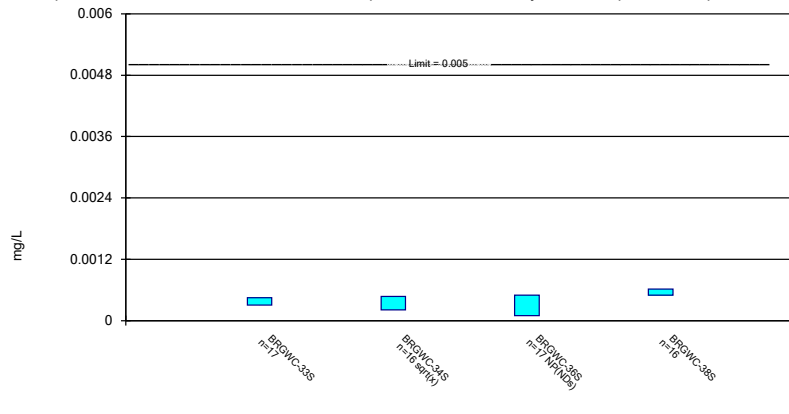
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

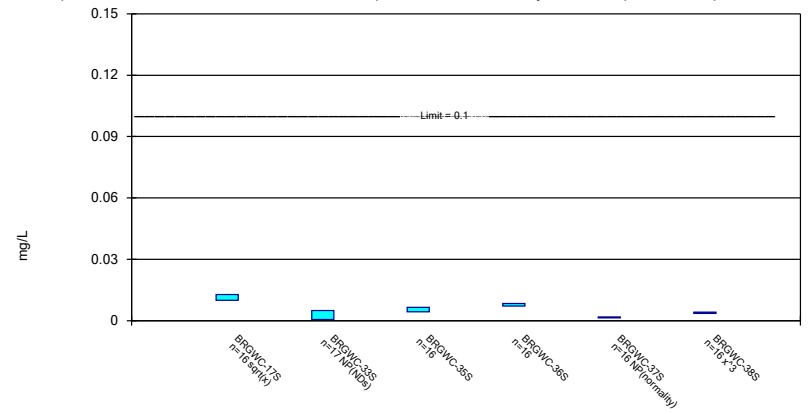
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

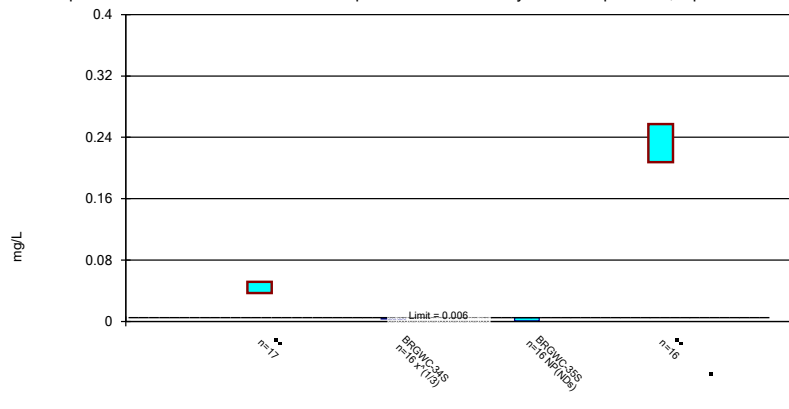
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

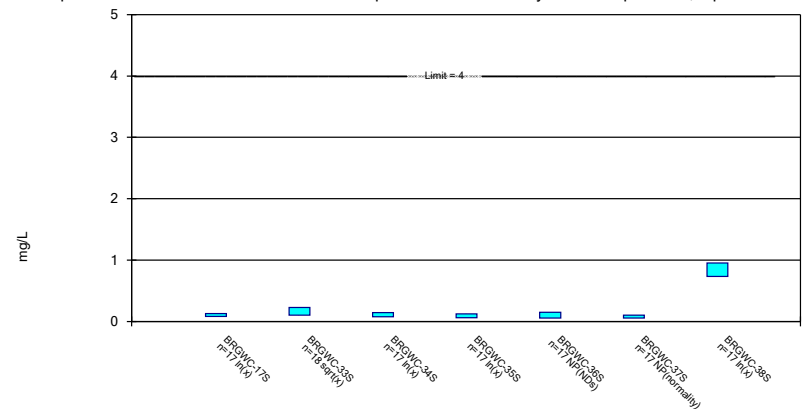
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

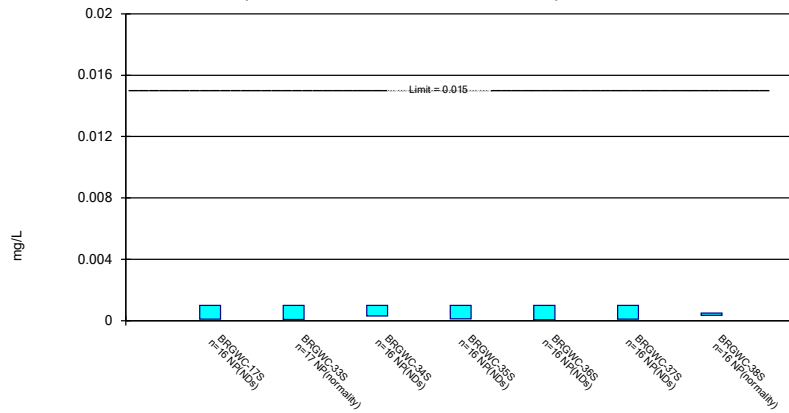
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

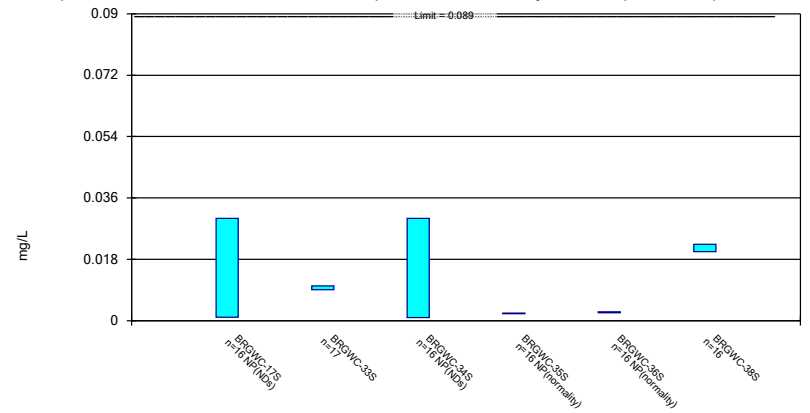
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

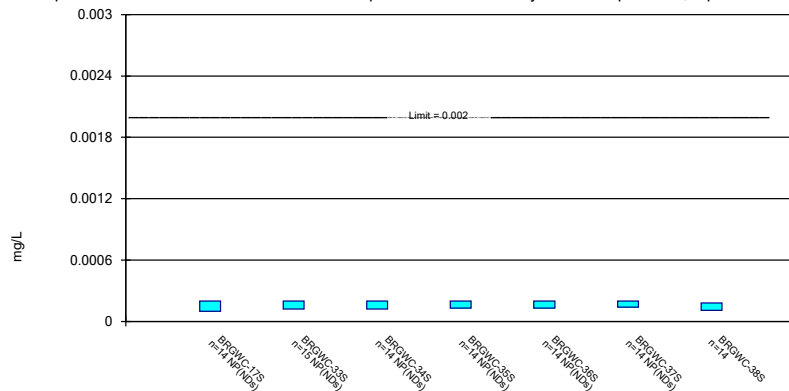
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

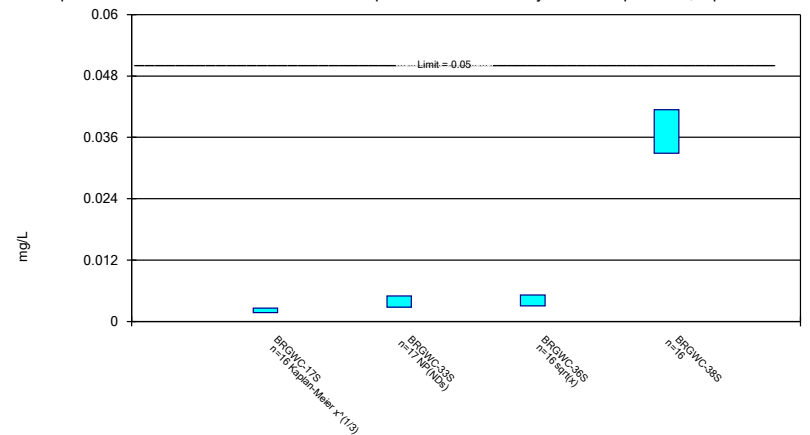
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric and Non-Parametric (NP) Confidence Interval

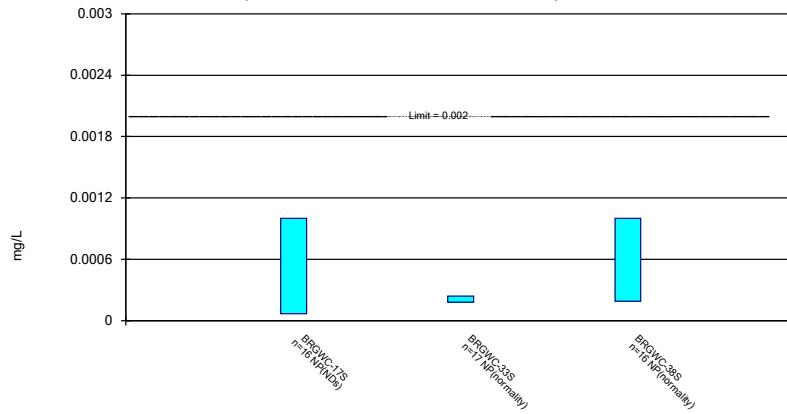
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
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 5/3/2022 8:17 AM View: Pond E - Confidence Intervals.1
Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003	<0.003		<0.003
11/17/2016	<0.003			
11/18/2016		0.0016 (J)		
11/21/2016				0.0009 (J)
2/22/2017	<0.003			
2/23/2017		<0.003	<0.003	<0.003
4/17/2017			0.0004 (J)	
5/15/2017			<0.003	
6/15/2017	0.0009 (J)	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.003	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003	<0.003
6/27/2018	<0.003			
6/28/2018		<0.003	<0.003	<0.003
12/19/2018	<0.003	<0.003	<0.003	
12/20/2018				<0.003
8/28/2019	<0.003	0.00035 (J)	<0.003	
8/29/2019				<0.003
10/16/2019			<0.003	<0.003
12/3/2019	<0.003	0.00049 (J)		
3/3/2020	<0.003			
3/5/2020		<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	<0.003	
9/17/2020				<0.003
3/3/2021		<0.003	<0.003	
3/4/2021	<0.003			<0.003
9/22/2021	<0.003	<0.003		
9/23/2021			<0.003	<0.003
2/1/2022	<0.003	<0.003		<0.003
2/2/2022			<0.003	
Mean	0.002869	0.00244	0.002688	0.002725
Std. Dev.	0.000525	0.001034	0.0008547	0.0007523
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0009	0.0006	0.0006	0.0009

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.005	<0.005	<0.005	<0.005		0.0026 (J)
11/17/2016	<0.005	<0.005	<0.005			
11/18/2016				<0.005		
11/21/2016						0.0034 (J)
2/22/2017	<0.005	<0.005	<0.005			
2/23/2017				<0.005	<0.005	0.003 (J)
4/17/2017					<0.005	
5/15/2017					<0.005	
6/14/2017		0.0006 (J)				
6/15/2017	0.0006 (J)		0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)
9/27/2017		<0.005				
9/28/2017	<0.005		<0.005	<0.005	<0.005	0.0046 (J)
2/15/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
6/27/2018	<0.005	<0.005	<0.005			
6/28/2018				<0.005 (X)	<0.005 (X)	<0.005 (X)
12/18/2018		<0.005 (X)				
12/19/2018	<0.005		<0.005	<0.005	<0.005	
12/20/2018						0.00098 (J)
8/27/2019		<0.005				
8/28/2019	0.00073 (J)	<0.005	0.00044 (J)	0.00045 (J)	0.00038 (J)	
8/29/2019						0.0013 (J)
10/16/2019		0.00056 (J)	0.0004 (J)		0.00078 (J)	0.0024 (J)
12/3/2019	0.00058 (J)			0.001 (J)		
3/3/2020	0.0033 (J)					
3/5/2020		<0.005	<0.005	<0.005	0.00044 (J)	0.0011 (J)
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)
9/16/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
9/17/2020						0.0015 (J)
3/3/2021		<0.005		<0.005	<0.005	
3/4/2021	<0.005		<0.005			0.0029 (J)
9/22/2021	<0.005	<0.005		<0.005		
9/23/2021			<0.005		<0.005	0.002 (J)
2/1/2022	<0.005	<0.005	<0.005	<0.005		<0.005
2/2/2022					<0.005	
Mean	0.004076	0.00448	0.004152	0.004197	0.004162	0.00278
Std. Dev.	0.001758	0.001468	0.001822	0.00173	0.001802	0.001439
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.003716
Lower Lim.	0.00073	0.0006	0.0006	0.001	0.00078	0.001844

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0377	0.0214		0.101	0.0674		0.044
9/8/2016			0.0415				
11/17/2016	0.0405	0.0211	0.04	0.0808			
11/18/2016					0.0546		
11/21/2016							0.0428 (J)
2/22/2017	0.0392	0.0243	0.0415	0.0701			
2/23/2017					0.0489	0.0229	0.0338
4/17/2017						0.0227	
5/15/2017						0.0227	
6/14/2017		0.0218	0.0341				
6/15/2017	0.0364			0.0518	0.0415	0.0218	0.0239
9/27/2017		0.0219	0.0347				
9/28/2017	0.0408			0.047	0.0397	0.0222	0.0247
2/15/2018	0.0396	0.0248	0.0346	0.0485	0.038	0.0243	0.0215
6/27/2018	0.041	0.023	0.028	0.046			
6/28/2018					0.035	0.023	0.018
12/18/2018		0.023	0.029				
12/19/2018	0.038			0.04	0.035	0.024	
12/20/2018							0.017
8/27/2019		0.02					
8/28/2019	0.044	0.02	0.026	0.039	0.034	0.027	
8/29/2019							0.016
10/16/2019		0.019	0.022	0.037		0.024	0.015
12/3/2019	0.043				0.031		
3/3/2020	0.036						
3/5/2020		0.022	0.025	0.039	0.033	0.025	0.016
8/19/2020	0.047	0.02	0.024	0.04	0.037	0.026	0.016
9/16/2020	0.044	0.019	0.023	0.033	0.03	0.024	
9/17/2020							0.014
3/3/2021		0.02	0.024		0.031	0.024	
3/4/2021	0.039			0.034			0.015
9/22/2021	0.043	0.019	0.021		0.028		
9/23/2021				0.036		0.027	0.014
2/1/2022	0.045	0.023	0.024	0.033	0.029		0.015
2/2/2022						0.025	
Mean	0.04089	0.02137	0.02953	0.04851	0.03832	0.0241	0.02167
Std. Dev.	0.003197	0.001831	0.00716	0.0193	0.01057	0.001583	0.009964
Upper Lim.	0.04297	0.02252	0.03384	0.0701	0.04353	0.02513	0.0338
Lower Lim.	0.03881	0.02022	0.02478	0.034	0.03178	0.02307	0.015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S
9/7/2016	0.0019 (J)		9E-05 (J)	<0.01	0.0079
9/8/2016		0.0001 (J)			
9/23/2016					0.0096 (R)
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)		
11/18/2016				0.0001 (J)	
11/21/2016					0.0092
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)		
2/23/2017				0.0001 (J)	0.01
6/14/2017	0.0019 (J)	<0.01			
6/15/2017			0.0001 (J)	9E-05 (J)	0.0104
9/27/2017	0.0017 (J)	0.0001 (J)			
9/28/2017			0.0001 (J)	0.0001 (J)	0.0098
2/15/2018	<0.01	<0.01	<0.01	<0.01	0.011 (J)
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)		
6/28/2018				8.1E-05 (J)	0.0085
12/18/2018	0.0021 (J)	0.00012 (J)			
12/19/2018			<0.01 (X)	<0.01 (X)	
12/20/2018					0.0092
8/27/2019	0.0019 (J)				
8/28/2019	0.0019 (J)	0.00014 (J)	0.00016 (J)	0.00011 (J)	
8/29/2019					0.0088
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		0.0079
10/17/2019				<0.01	
12/3/2019				9.7E-05 (J)	
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	0.0082
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	0.0079
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)	
9/17/2020					0.0073
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)	
3/4/2021			0.00012 (J)		0.0077
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)	
9/23/2021			0.00016 (J)		0.0071
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)	0.0072
Mean	0.001935	0.000745	0.0007387	0.001248	0.008688
Std. Dev.	0.0008448	0.001661	0.001664	0.002146	0.001183
Upper Lim.	0.0021	0.0002	0.00016	0.005	0.009429
Lower Lim.	0.0014	0.00012	0.0001	8.4E-05	0.007947

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-36S	BRGWC-38S
9/7/2016	0.0005 (J)		8E-05 (J)	0.0004 (J)
9/8/2016		<0.0005		
11/17/2016	0.0005 (J)	0.0009 (J)		
11/18/2016			<0.0005	
11/21/2016				0.0005 (J)
2/22/2017	0.0006 (J)	0.0005 (J)		
2/23/2017			0.0001 (J)	0.0007 (J)
6/14/2017	0.0004 (J)	0.0004 (J)		
6/15/2017			<0.0005	0.0006 (J)
9/27/2017	0.0004 (J)	0.0007 (J)		
9/28/2017			<0.0005	0.0007 (J)
2/15/2018	<0.0005	<0.0005	<0.0005	0.00069 (J)
6/27/2018	0.00038 (J)	0.00017 (J)		
6/28/2018			<0.0005	0.00056 (J)
12/18/2018	0.00046 (J)	0.00023 (J)		
12/19/2018			<0.0005 (X)	
12/20/2018				<0.0005 (X)
8/27/2019	0.00032 (J)			
8/28/2019	0.00032 (J)	0.00025 (J)	<0.0005	
8/29/2019				0.00053 (J)
10/16/2019	0.00039 (J)	0.0004 (J)		0.00057 (J)
10/17/2019			<0.0005	
12/3/2019			<0.0005	
3/5/2020	0.00038 (J)	0.00018 (J)	<0.0005	0.00059 (J)
8/19/2020	0.00029 (J)	0.00018 (J)	<0.0005	0.00056 (J)
9/16/2020	0.00032 (J)	0.00017 (J)	<0.0005	
9/17/2020				0.0005 (J)
3/3/2021	0.00022 (J)	0.00015 (J)	<0.0005	
3/4/2021				0.00042 (J)
9/22/2021	0.00019 (J)	0.00033 (J)	<0.0005	
9/23/2021				0.00048 (J)
2/1/2022	0.00023 (J)	0.00012 (J)	<0.0005	0.00058
Mean	0.0003765	0.000355	0.0004518	0.000555
Std. Dev.	0.0001123	0.0002217	0.0001362	9.018E-05
Upper Lim.	0.0004468	0.0004701	0.0005	0.0006137
Lower Lim.	0.0003061	0.0002079	0.0001	0.0004963

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.01 (J)	<0.005	0.0019 (J)	0.0073 (J)		0.0014 (J)
11/17/2016	0.0185	<0.005	0.0024 (J)			
11/18/2016				0.008 (J)		
11/21/2016						0.003 (J)
2/22/2017	0.0122	<0.005	0.004 (J)			
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)
4/17/2017					0.0018 (J)	
5/15/2017					0.0014 (J)	
6/14/2017		<0.005				
6/15/2017	0.0117		0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)
9/27/2017		<0.005				
9/28/2017	0.0114		0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)
2/15/2018	0.011	<0.005	<0.005	0.0086 (J)	<0.005	0.0044 (J)
6/27/2018	0.0098 (J)	<0.005	0.0062 (J)			
6/28/2018				0.0076 (J)	<0.005	0.0041 (J)
12/18/2018		<0.005				
12/19/2018	0.0095 (J)		0.0073 (J)	0.0085 (J)	<0.005	
12/20/2018						0.0041 (J)
8/27/2019		<0.005				
8/28/2019	0.013	<0.005	0.0071 (J)	0.0078 (J)	0.0017 (J)	
8/29/2019						0.0044 (J)
10/16/2019		0.00049 (J)	0.0064 (J)		0.0014 (J)	0.0038 (J)
12/3/2019	0.011			0.007 (J)		
3/3/2020	0.0081 (J)					
3/5/2020		<0.005	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)
8/19/2020	0.012	<0.005	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)
9/16/2020	0.012	<0.005	0.0058 (J)	0.0064 (J)	0.0018 (J)	
9/17/2020						0.0042 (J)
3/3/2021		<0.005		0.0067	0.0014 (J)	
3/4/2021	0.01		0.0053			0.004 (J)
9/22/2021	0.0091	<0.005		0.0065		
9/23/2021			0.0065		0.0016 (J)	0.004 (J)
2/1/2022	0.013	<0.005	0.0056	0.0068		0.0035 (J)
2/2/2022					0.0015 (J)	
Mean	0.01139	0.004735	0.005431	0.007775	0.002162	0.003706
Std. Dev.	0.00236	0.001094	0.001748	0.0009081	0.001422	0.0007637
Upper Lim.	0.01278	0.005	0.006568	0.008366	0.0018	0.004147
Lower Lim.	0.00989	0.00049	0.004294	0.007184	0.0014	0.003452

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-38S
9/7/2016	0.0612		0.0023 (J)	0.236
9/8/2016		0.0029 (J)		
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)	
11/21/2016				0.298
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)	
2/23/2017				0.277
6/14/2017	0.0557	0.0036 (J)		
6/15/2017			0.0004 (J)	0.262
9/27/2017	0.049	0.0028 (J)		
9/28/2017			0.0003 (J)	0.279
2/15/2018	0.0536	<0.005	<0.005	0.279
6/27/2018	0.054	0.0041 (J)	<0.005	
6/28/2018				0.23
12/18/2018	0.049	0.0032 (J)		
12/19/2018			<0.005	
12/20/2018				0.25
8/27/2019	0.045			
8/28/2019	0.045	0.0037 (J)	<0.005	
8/29/2019				0.21
10/16/2019	0.042	0.0043 (J)	<0.005	0.21
3/5/2020	0.037	0.0031 (J)	<0.005	0.22
8/19/2020	0.036	0.0041 (J)	<0.005	0.22
9/16/2020	0.034	0.0042 (J)	<0.005	
9/17/2020				0.2
3/3/2021	0.028	0.0046 (J)		
3/4/2021			<0.005	0.2
9/22/2021	0.024	0.0075		
9/23/2021			<0.005	0.17
2/1/2022	0.027	0.0044 (J)	<0.005	0.18
Mean	0.04425	0.004025	0.00375	0.2326
Std. Dev.	0.01152	0.001146	0.00196	0.0382
Upper Lim.	0.05147	0.004648	0.005	0.2574
Lower Lim.	0.03704	0.003304	0.0008	0.2077

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.22 (J)	0.19 (J)		0.34	0.18 (J)		0.66
9/8/2016			0.17 (J)				
11/17/2016	0.12 (J)	0.12 (J)	0.06 (J)	0.14 (J)			
11/18/2016					0.03 (J)		
11/21/2016							0.9 (D)
2/22/2017	0.11 (J)	0.21 (J)	0.17 (J)	0.09 (J)			
2/23/2017					0.07 (J)	0.1 (J)	0.75
4/17/2017						0.08 (J)	
5/15/2017						0.02 (J)	
6/14/2017		0.18 (J)	0.1 (J)				
6/15/2017	0.05 (J)			0.03 (J)	0.01 (J)	0.03 (J)	0.77
9/27/2017		0.42	0.4				
9/28/2017	0.05 (J)			<0.1	<0.1	<0.1	0.8
2/15/2018	<0.1	0.42	<0.1	<0.1	<0.1	<0.1	0.82
6/27/2018	0.093 (J)	0.32	0.21 (J)	0.22 (J)			
6/28/2018					0.51 (J+X)	<0.1	1.5 (J+X)
12/18/2018		0.28 (J)	0.12 (J)				
12/19/2018	0.16 (J)			0.11 (J)	<0.1	0.094 (J)	
12/20/2018							0.68
3/19/2019	0.1 (J)				<0.1		
3/20/2019		0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95
8/27/2019		0.11 (J)					
8/28/2019	0.085 (J)	0.11 (J)	0.057 (J)	0.056 (J)	<0.1	<0.1	
8/29/2019							0.9
10/16/2019		0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61
12/3/2019	0.2 (J)				0.15 (J)		
3/3/2020	0.093 (J)						
3/5/2020		0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92
8/19/2020	0.1	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95
9/16/2020	0.1	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1	
9/17/2020							0.68
3/3/2021		0.069 (J)	0.071 (J)		<0.1	<0.1	
3/4/2021	0.096 (J)			0.076 (J)			0.83
9/22/2021	0.1	0.068 (J)	0.1		0.054 (J)		
9/23/2021				0.073 (J)		<0.1	0.85
2/1/2022	0.079 (J)	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95
2/2/2022						<0.1	
Mean	0.1092	0.1746	0.1203	0.1028	0.115	0.07941	0.8541
Std. Dev.	0.04531	0.1147	0.08469	0.07438	0.1094	0.02759	0.199
Upper Lim.	0.1295	0.227	0.1434	0.1233	0.15	0.1	0.9507
Lower Lim.	0.07959	0.1032	0.07412	0.06137	0.054	0.055	0.7353

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.001	0.0002 (J)		0.0001 (J)	<0.001		0.0004 (J)
9/8/2016			<0.001				
11/17/2016	0.0001 (J)	0.0002 (J)	0.0001 (J)	0.0002 (J)			
11/18/2016					<0.001		
11/21/2016							0.0005 (J)
2/22/2017	<0.001	0.0001 (J)	0.0003 (J)	0.0001 (J)			
2/23/2017					<0.001	<0.001	0.0005 (J)
4/17/2017						0.0001 (J)	
5/15/2017						<0.001	
6/14/2017		9E-05 (J)	<0.001				
6/15/2017	<0.001			<0.001	<0.001	<0.001	0.0004 (J)
9/27/2017		7E-05 (J)	9E-05 (J)				
9/28/2017	<0.001			<0.001	<0.001	0.0001 (J)	0.0004 (J)
2/15/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00047 (J)
6/27/2018	<0.001	<0.001	<0.001	<0.001			
6/28/2018					<0.001	<0.001	0.00036 (J)
12/18/2018		<0.001	<0.001				
12/19/2018	<0.001			<0.001	<0.001	<0.001	
12/20/2018							0.00039 (J)
8/27/2019		0.00013 (J)					
8/28/2019	<0.001	0.00013 (J)	<0.001	<0.001	<0.001	<0.001	
8/29/2019							0.00035 (J)
10/16/2019		8.8E-05 (J)	<0.001	<0.001		<0.001	0.00035 (J)
12/3/2019	<0.001				<0.001		
3/3/2020	<0.001						
3/5/2020		8.7E-05 (J)	<0.001	<0.001	<0.001	<0.001	0.00041 (J)
8/19/2020	<0.001	6E-05 (J)	<0.001	<0.001	4.7E-05 (J)	<0.001	0.00031 (J)
9/16/2020	5.4E-05 (J)	6.3E-05 (J)	<0.001	0.00012 (J)	<0.001	<0.001	
9/17/2020							0.00032 (J)
3/3/2021		5.8E-05 (J)	<0.001		<0.001	<0.001	
3/4/2021	<0.001			<0.001			0.00034 (J)
9/22/2021	<0.001	<0.001	<0.001		<0.001		
9/23/2021				<0.001		<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/2/2022						<0.001	
Mean	0.0008846	0.0003692	0.0008431	0.0007825	0.0009404	0.0008875	0.0004688
Std. Dev.	0.0003154	0.0004218	0.00034	0.0003897	0.0002383	0.0003074	0.0002151
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.0005
Lower Lim.	0.0001	7E-05	0.0003	0.00012	4.7E-05	0.0001	0.00034

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S
9/7/2016	<0.03	0.0092 (J)		0.0021 (J)	0.0024 (J)	0.0193 (J)
9/8/2016			<0.03			
11/17/2016	<0.03	0.0097 (J)	<0.03	0.0022 (J)		
11/18/2016					0.0026 (J)	
11/21/2016						0.0223 (J)
2/22/2017	<0.03	0.0106 (J)	<0.03	0.0023 (J)		
2/23/2017					0.0026 (J)	0.0229 (J)
6/14/2017		0.0097 (J)	<0.03			
6/15/2017	<0.03			0.0023 (J)	0.0026 (J)	0.0227 (J)
9/27/2017		0.0099 (J)	<0.03			
9/28/2017	<0.03			0.0021 (J)	0.0025 (J)	0.023 (J)
2/15/2018	<0.03	0.0106 (J)	<0.03	0.0021 (J)	<0.03	0.0254 (J)
6/27/2018	<0.03	0.01 (J)	<0.03	0.0021 (J)		
6/28/2018					0.0022 (J)	0.021 (J)
12/18/2018		0.011 (J)	<0.03			
12/19/2018	<0.03			0.0021 (J)	0.0026 (J)	
12/20/2018						0.022 (J)
8/27/2019		0.01 (J)				
8/28/2019	0.00097 (J)	0.01 (J)	0.0009 (J)	0.0021 (J)	0.0025 (J)	
8/29/2019						0.021 (J)
10/16/2019		0.0098 (J)	0.00078 (J)	0.0022 (J)		0.02 (J)
12/3/2019	0.001 (J)				0.0024 (J)	
3/3/2020	<0.03					
3/5/2020		0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	0.021 (J)
8/19/2020	0.001 (J)	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	0.021 (J)
9/16/2020	0.00096 (J)	0.0089 (J)	<0.03	0.002 (J)	0.0022 (J)	
9/17/2020						0.02 (J)
3/3/2021		0.0085 (J)	0.00096 (J)		0.0024 (J)	
3/4/2021	0.00086 (J)			0.0021 (J)		0.021 (J)
9/22/2021	0.0011 (J)	0.008 (J)	<0.03		0.0026 (J)	
9/23/2021				0.0022 (J)		0.019 (J)
2/1/2022	0.00096 (J)	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)	0.02 (J)
Mean	0.0173	0.009659	0.01907	0.002138	0.004175	0.02135
Std. Dev.	0.01487	0.0009	0.01457	8.062E-05	0.006888	0.001643
Upper Lim.	0.03	0.01022	0.03	0.0022	0.0026	0.02242
Lower Lim.	0.00097	0.009095	0.00085	0.002	0.0023	0.02028

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.0002	<0.0002		<0.0002	<0.0002		7E-05 (J)
9/8/2016			<0.0002				
11/17/2016	<0.0002	<0.0002	<0.0002	<0.0002			
11/18/2016					<0.0002		
11/21/2016							0.00012 (J)
2/22/2017	<0.0002	<0.0002	<0.0002	<0.0002			
2/23/2017					<0.0002	<0.0002	7E-05 (J)
4/17/2017						<0.0002	
5/15/2017						<0.0002	
6/14/2017		7E-05 (J)	7E-05 (J)				
6/15/2017	6E-05 (J)			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)
9/27/2017		4E-05 (J)	4E-05 (J)				
9/28/2017	<0.0002			<0.0002	<0.0002	<0.0002	0.00011 (J)
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015 (J)
6/27/2018	<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2018					<0.0002	<0.0002	<0.0002 (X)
12/18/2018		<0.0002	<0.0002				
12/19/2018	<0.0002			<0.0002	<0.0002	<0.0002	
12/20/2018							0.00017 (J)
8/27/2019		<0.0002					
8/28/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/29/2019							0.00018 (J)
8/19/2020	8.4E-05 (J)	<0.0002	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020							0.00011 (J)
3/3/2021		<0.0002	<0.0002		<0.0002	<0.0002	
3/4/2021	<0.0002			<0.0002			8.5E-05 (J)
9/22/2021	0.0001 (J)	0.00012 (J)	0.00015 (J)		0.0001 (J)		
9/23/2021				0.00011 (J)		0.00011 (J)	0.00022
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/2/2022						<0.0002	
Mean	0.0001746	0.0001753	0.00017	0.0001793	0.0001786	0.0001793	0.0001446
Std. Dev.	5.114E-05	5.33E-05	5.463E-05	4.287E-05	4.418E-05	4.411E-05	5.032E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001803
Lower Lim.	0.0001	0.00012	0.00012	0.00013	0.00013	0.00014	0.000109

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-36S	BRGWC-38S
9/7/2016	0.0024 (J)	0.0032 (J)	0.0079 (J)	0.0311
11/17/2016	0.0028 (J)	0.0028 (J)		
11/18/2016			0.0082 (J)	
11/21/2016				0.0409
2/22/2017	0.0018 (J)	0.0018 (J)		
2/23/2017			0.0061 (J)	0.0354
6/14/2017		0.004 (J)		
6/15/2017	0.0024 (J)		0.0046 (J)	0.0511
9/27/2017		0.0036 (J)		
9/28/2017	<0.005		0.0042 (J)	0.0484
2/15/2018	<0.005	<0.005	0.0045 (J)	0.0435
6/27/2018	0.002 (J)	0.0017 (J)		
6/28/2018			0.0033 (J)	0.037
12/18/2018		<0.005		
12/19/2018	0.0014 (J)		0.0042 (J)	
12/20/2018				0.037
8/27/2019		<0.005		
8/28/2019	0.003 (J)	<0.005	0.0041 (J)	
8/29/2019				0.036
10/16/2019		0.0028 (J)		0.033
12/3/2019	0.0041 (J)		0.0035 (J)	
3/3/2020	0.0019 (J)			
3/5/2020		<0.005	0.0034 (J)	0.032
8/19/2020	0.003 (J)	<0.005	0.002 (J)	0.041
9/16/2020	<0.005	0.0028 (J)	0.0031 (J)	
9/17/2020				0.029
3/3/2021		<0.005	0.0024 (J)	
3/4/2021	<0.005			0.039
9/22/2021	0.0015 (J)	<0.005	0.0032 (J)	
9/23/2021				0.031
2/1/2022	0.0021 (J)	<0.005	0.0025 (J)	0.029
Mean	0.003025	0.003982	0.0042	0.03715
Std. Dev.	0.001347	0.001231	0.001801	0.006579
Upper Lim.	0.002624	0.005	0.005193	0.04143
Lower Lim.	0.00175	0.0028	0.003031	0.03287

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/3/2022 8:18 AM View: Pond E - Confidence Intervals.1

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-38S
9/7/2016	<0.001	0.0002 (J)	<0.001
11/17/2016	<0.001	0.0002 (J)	
11/21/2016			0.0004 (J)
2/22/2017	<0.001	0.0002 (J)	
2/23/2017			0.0003 (J)
6/14/2017		0.0002 (J)	
6/15/2017	<0.001		0.0003 (J)
9/27/2017		0.0002 (J)	
9/28/2017	<0.001		0.0003 (J)
2/15/2018	<0.001	0.00024 (J)	0.00026 (J)
6/27/2018	<0.001	0.00022 (J)	
6/28/2018			0.00018 (J)
12/18/2018		0.00022 (J)	
12/19/2018	<0.001		
12/20/2018			<0.001 (X)
8/27/2019		0.00016 (J)	
8/28/2019	<0.001	0.00016 (J)	
8/29/2019			0.00021 (J)
10/16/2019		0.00019 (J)	0.0002 (J)
12/3/2019	6.6E-05 (J)		
3/3/2020	<0.001		
3/5/2020		0.0002 (J)	0.0002 (J)
8/19/2020	<0.001	0.00018 (J)	0.00019 (J)
9/16/2020	<0.001	0.00018 (J)	
9/17/2020			0.00017 (J)
3/3/2021		0.00018 (J)	
3/4/2021	<0.001		<0.001
9/22/2021	<0.001	<0.001	
9/23/2021			0.00022 (J)
2/1/2022	<0.001	<0.001	<0.001
Mean	0.0009416	0.00029	0.0004331
Std. Dev.	0.0002335	0.000268	0.0003431
Upper Lim.	0.001	0.00024	0.001
Lower Lim.	6.6E-05	0.00018	0.00019

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/12/2022, 1:23 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>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006591	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02051	-84	-58	Yes	16	0	n/a	n/a	0.01	NP

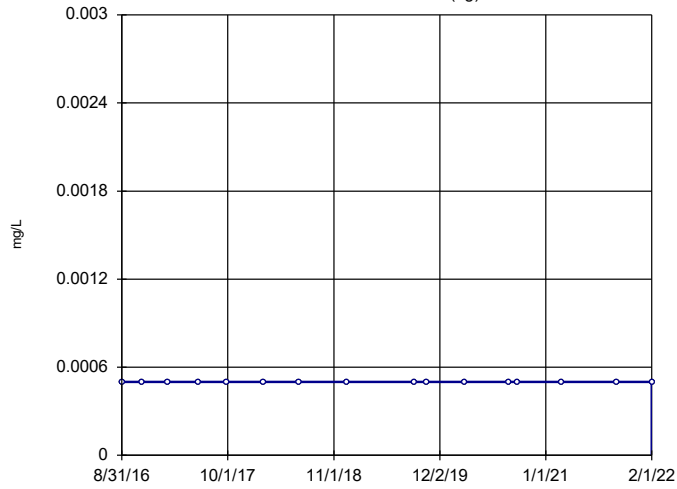
Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/12/2022, 1:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	BRGWC-38S	-0.0005005	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2I (bg)	0	-2	-58	No	16	75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-2S (bg)	-0.0004206	-54	-58	No	16	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5I (bg)	-0.0001573	-43	-48	No	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-5S (bg)	0	21	58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	-4	-58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-33S	-0.006591	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	BRGWC-38S	-0.02051	-84	-58	Yes	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

BRGWA-2I (bg)

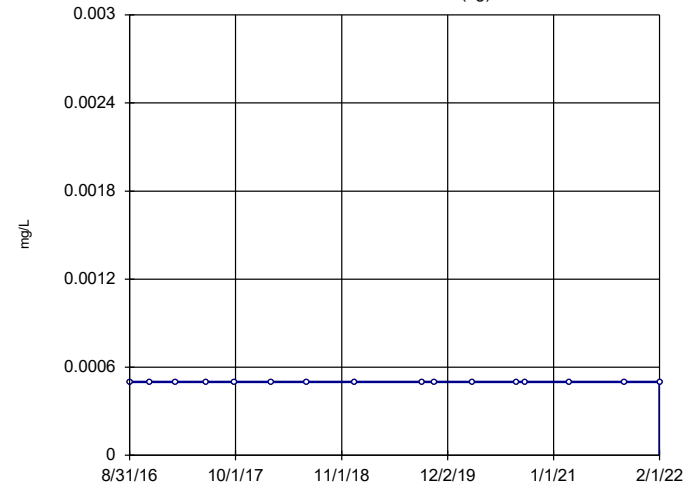


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

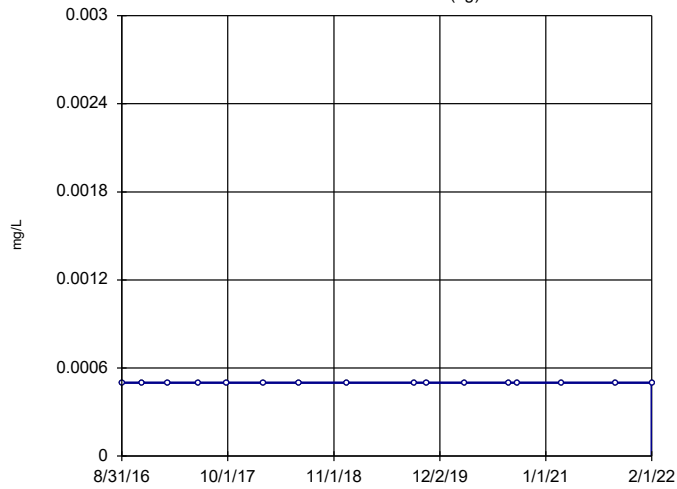


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5I (bg)

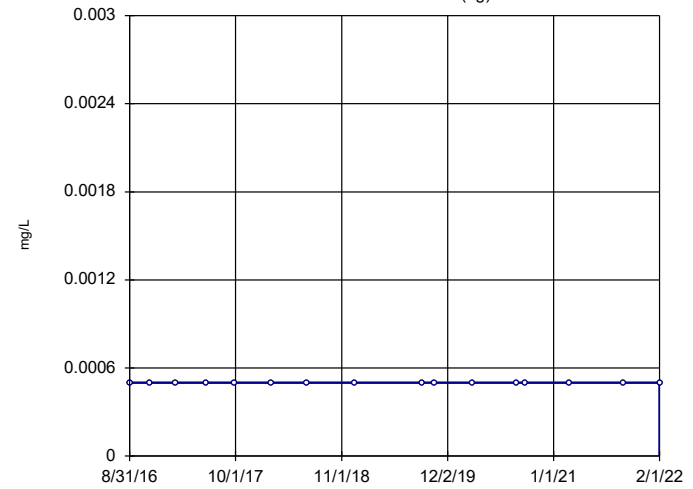


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)

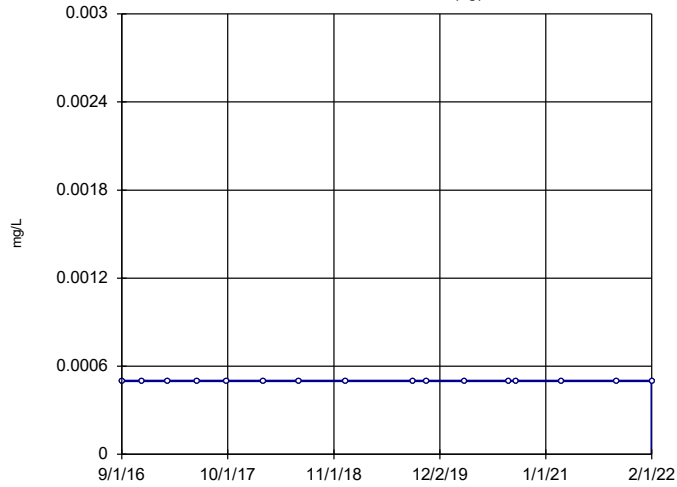


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

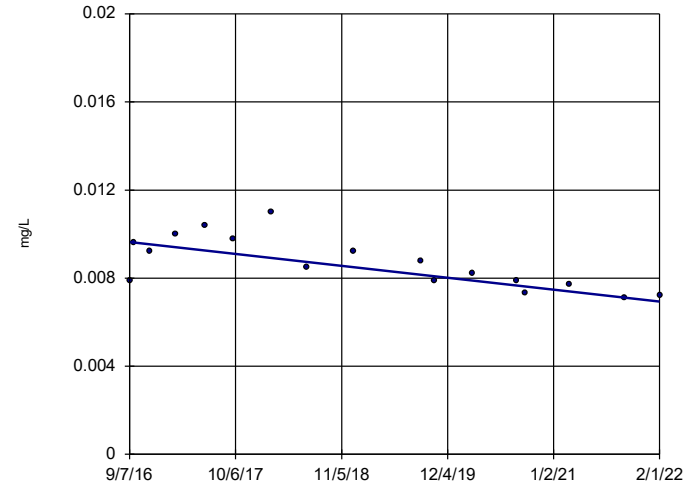


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S

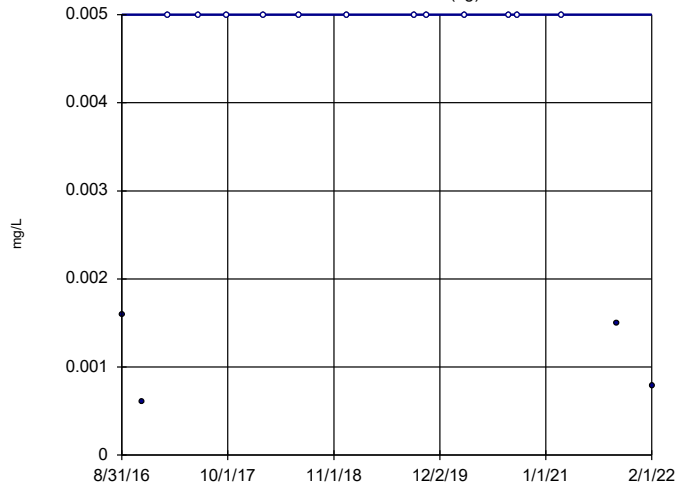


n = 17
 Slope = -0.0005005
 units per year.
 Mann-Kendall
 statistic = -78
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)

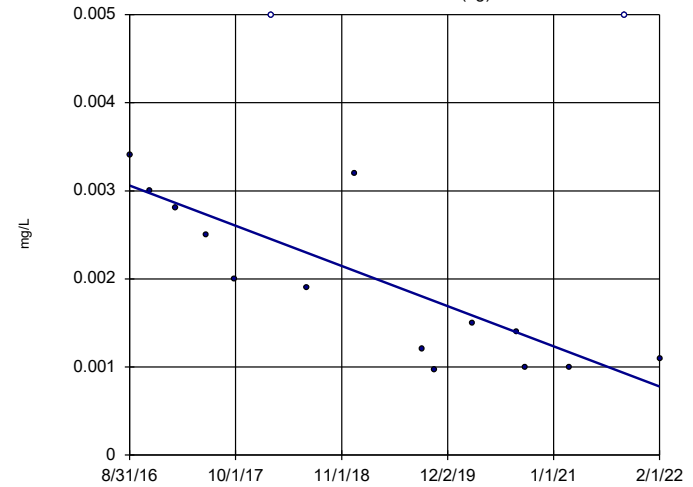


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2S (bg)

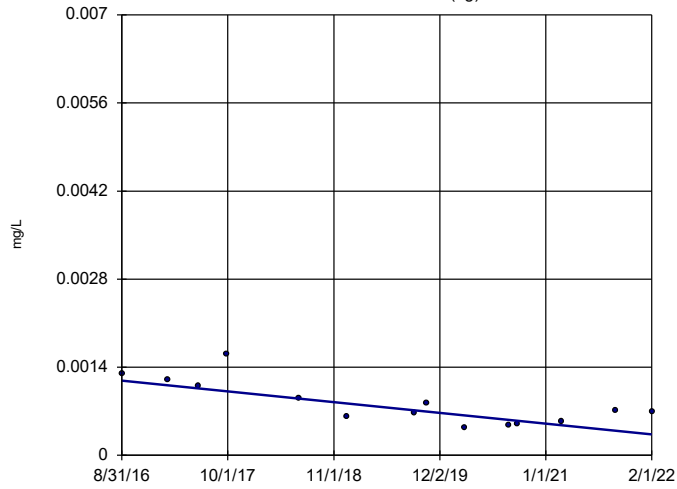


n = 16
 Slope = -0.0004206
 units per year.
 Mann-Kendall
 statistic = -54
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
 Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

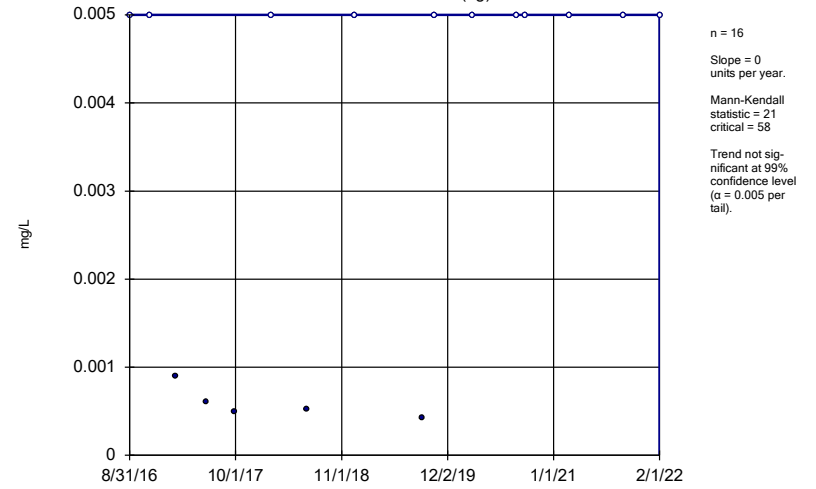
BRGWA-5I (bg)



Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

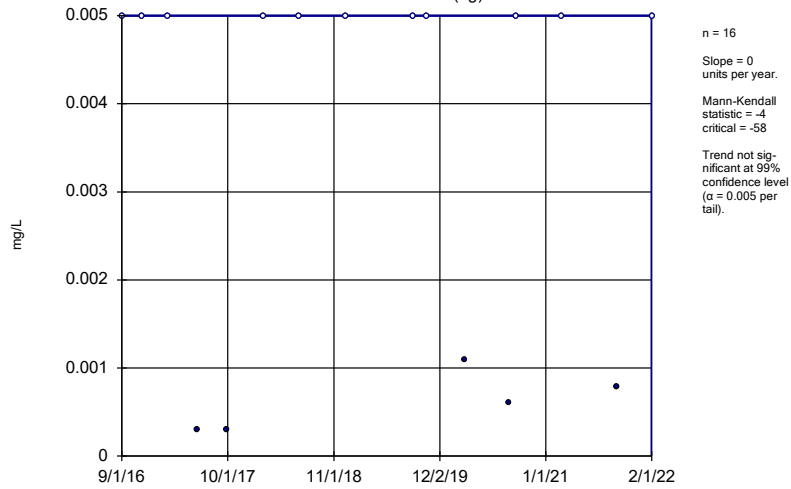
BRGWA-5S (bg)



Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-6S (bg)

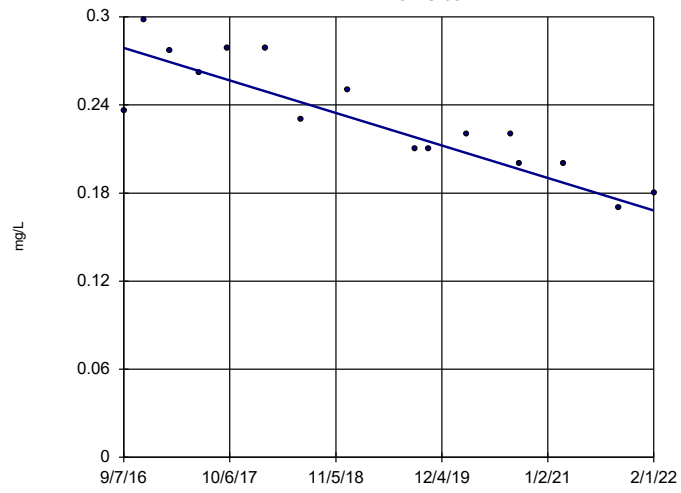


Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-33S

Sen's Slope Estimator BRGWC-38S

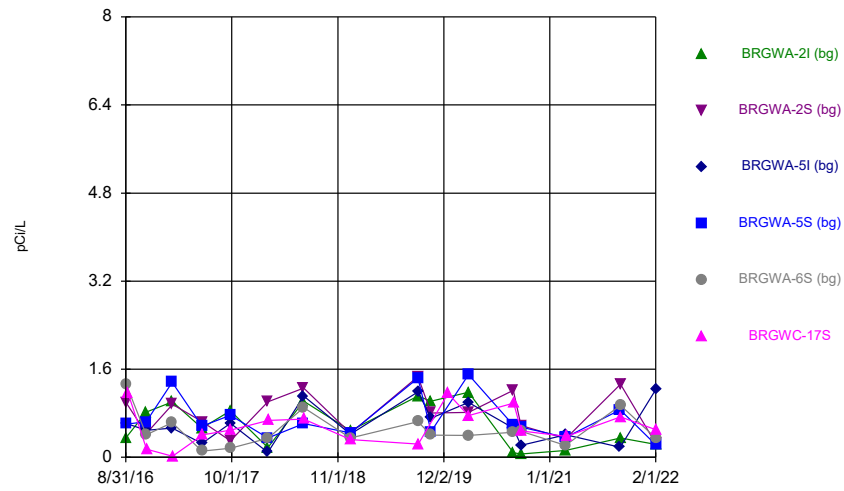


n = 16
Slope = -0.02051
units per year.
Mann-Kendall
statistic = -84
critical = -58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/12/2022 1:22 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

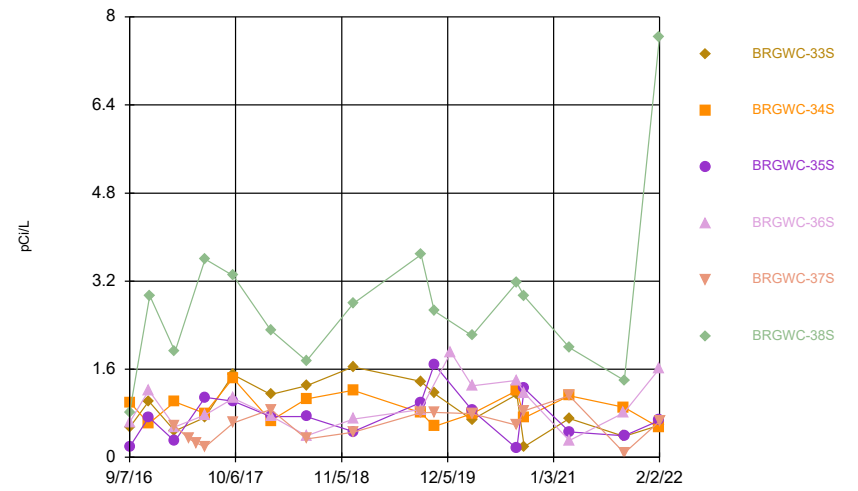
FIGURE J.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 3:59 PM View: Pond E - Combined Radi
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 3:59 PM View: Pond E - Combined Radi
 Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2022 3:59 PM View: Pond E - Combined Radium

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S
8/31/2016	0.351 (U)	1 (U)	0.62 (U)	0.603 (U)		
9/1/2016					1.33	
9/7/2016						1.18
11/15/2016				0.645 (U)	0.412 (U)	
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)			
11/17/2016						0.145 (U)
2/20/2017			0.534 (U)	1.36	0.633 (U)	
2/21/2017	1.01 (U)	0.96 (U)				
2/22/2017						0.0213 (U)
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)	
6/13/2017		0.645 (U)				
6/15/2017						0.41 (U)
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)	
9/28/2017						0.496 (U)
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)	
2/15/2018						0.672 (U)
6/26/2018	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)	
6/27/2018						0.692 (U)
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)	
12/19/2018						0.325 (U)
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)	
8/28/2019						0.24 (U)
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)	
12/18/2019						1.16 (U)
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	0.756 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)	
8/19/2020						0.985 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)	
9/16/2020						0.478 (U)
3/1/2021	0.127 (U)				0.215 (U)	
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)		
3/4/2021						0.38 (U)
9/21/2021			0.182 (U)	0.86 (U)		
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	0.734 (U)
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.503 (U)

Time Series

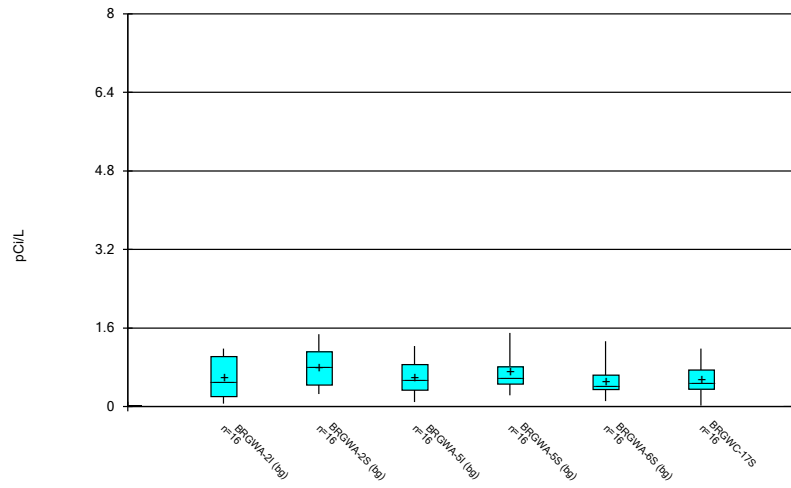
Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2022 3:59 PM View: Pond E - Combined Radium

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.541 (U)		0.189 (U)	0.638 (U)		0.816 (U)
9/8/2016		0.998 (U)				
11/17/2016	1.02 (U)	0.613	0.729 (U)			
11/18/2016				1.22 (U)		
11/21/2016						2.94
2/22/2017	0.482 (U)	1.01 (U)	0.293 (U)			
2/23/2017				0.554 (U)	0.567 (U)	1.92
4/17/2017					0.335 (U)	
5/15/2017					0.261 (U)	
6/14/2017	0.723 (U)	0.801 (U)				
6/15/2017			1.09	0.77 (U)	0.188 (U)	3.6
9/27/2017	1.5	1.44				
9/28/2017			1.02 (U)	1.07 (U)	0.627 (U)	3.3
2/15/2018	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)
6/27/2018	1.3 (U)	1.06 (U)	0.739 (U)			
6/28/2018				0.392 (U)	0.336 (U)	1.75 (UX)
12/18/2018	1.64 (UX)	1.22				
12/19/2018			0.465 (U)	0.693 (U)	0.454 (U)	
12/20/2018						2.8 (J+X)
8/27/2019	1.38					
8/28/2019		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)	
8/29/2019						3.68
10/16/2019	1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66
12/18/2019				1.91		
3/5/2020	0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21
8/19/2020	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17
9/16/2020	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)	
9/17/2020						2.92
3/3/2021	0.708 (U)	1.12		0.307 (U)	1.12	
3/4/2021			0.461 (U)			1.99
9/22/2021	0.382 (U)	0.91 (U)		0.808 (U)		
9/23/2021			0.394 (U)		0.078 (U)	1.4
2/1/2022	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64
2/2/2022					0.654 (U)	

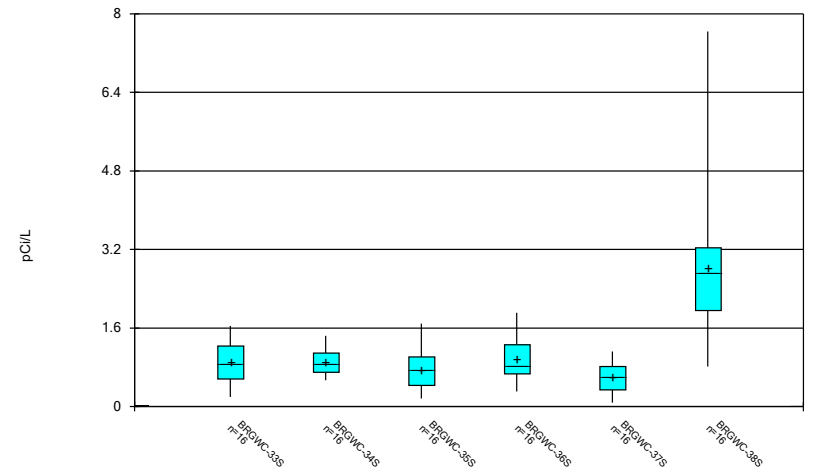
FIGURE K.

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 4:00 PM View: Pond E - Combined Radi
Plant Branch Client: Southern Company Data: Plant Branch AP

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 4:00 PM View: Pond E - Combined Radi
Plant Branch Client: Southern Company Data: Plant Branch AP

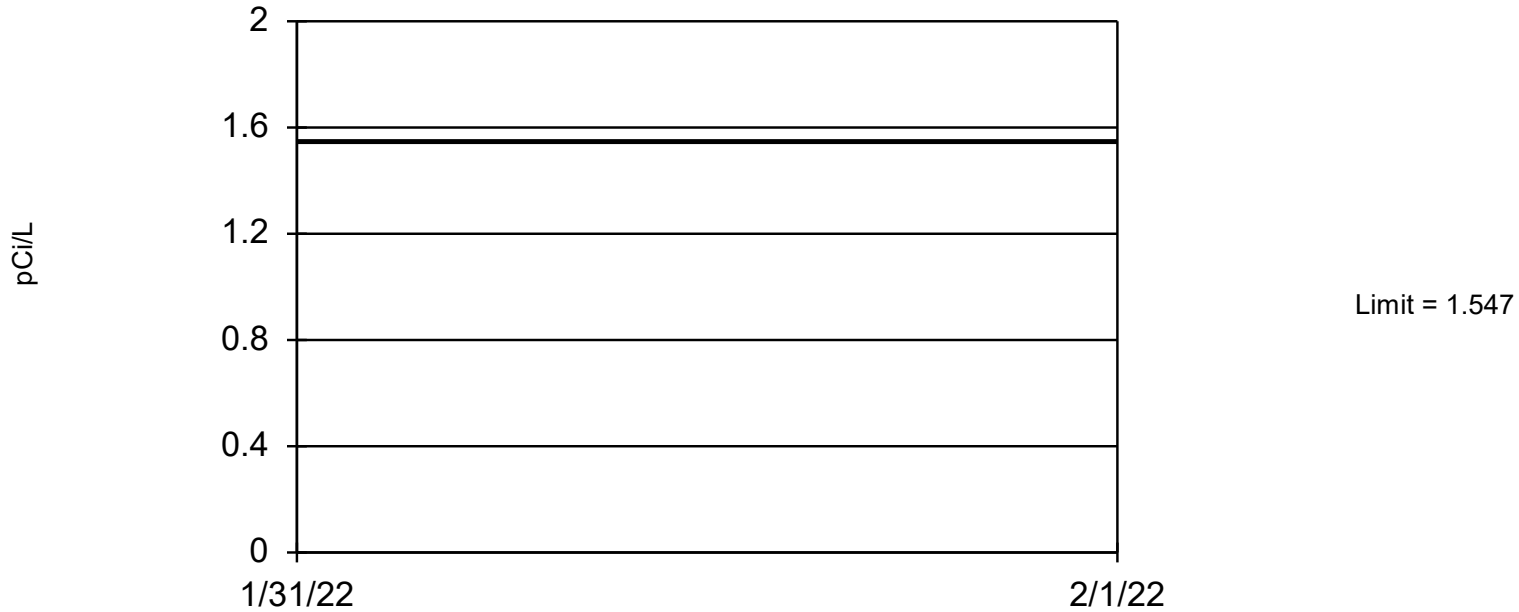
FIGURE L.

Upper Tolerance Limit Summary Table - Combined Radium 226 + 228

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/4/2022, 4:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	n/a	1.547	n/a	n/a	n/a	n/a	80	0.7633	0.2449	0	None	sqrt(x)	0.05	Inter

Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary (based on square root transformation): Mean=0.7633, Std. Dev.=0.2449, n=80. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9878, critical = 0.957. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 4:01 PM View: Pond E Combined Radium
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE M.

PLANT BRANCH POND E GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Combined Radium, Total (pCi/L)	5		1.55	5

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE N.

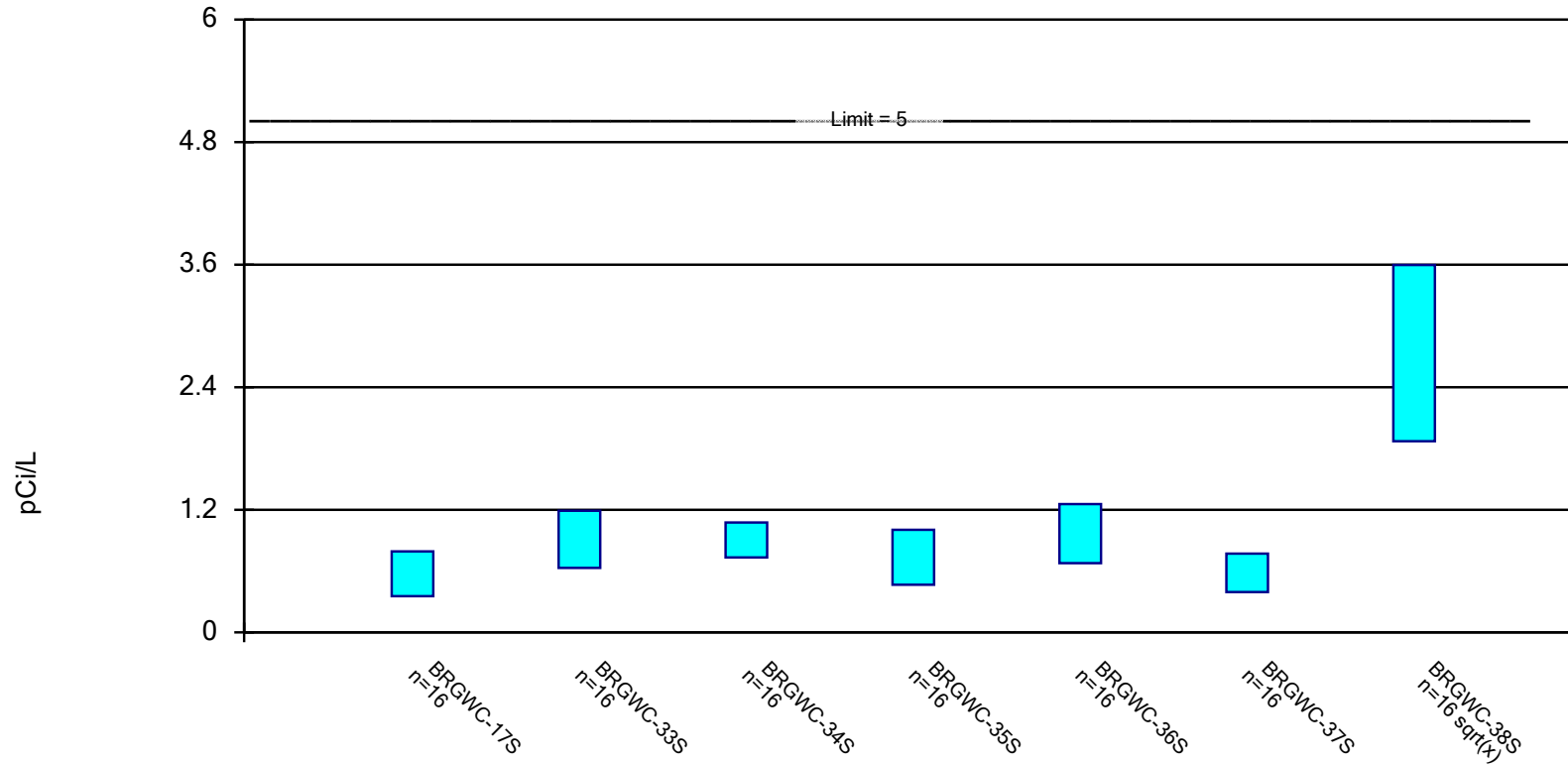
Confidence Intervals - Combined Radium 226 + 228 (No Significant Results)

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 5/4/2022, 4:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.7932	0.3539	5	No	16	0.5736	0.3376	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.191	0.6311	5	No	16	0.9111	0.4303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.075	0.7337	5	No	16	0.9043	0.2623	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.003	0.4657	5	No	16	0.7343	0.4129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.255	0.6773	5	No	16	0.9662	0.4441	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.7708	0.3955	5	No	16	0.5831	0.2884	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.597	1.871	5	No	16	2.819	1.512	0	None	sqrt(x)	0.01	Param.

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2022 4:11 PM View: Pond E Combined Radium
Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2022 4:11 PM View: Pond E Combined Radium - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	1.18	0.541 (U)		0.189 (U)	0.638 (U)		0.816 (U)
9/8/2016			0.998 (U)				
11/17/2016	0.145 (U)	1.02 (U)	0.613	0.729 (U)			
11/18/2016					1.22 (U)		
11/21/2016							2.94
2/22/2017	0.0213 (U)	0.482 (U)	1.01 (U)	0.293 (U)			
2/23/2017					0.554 (U)	0.567 (U)	1.92
4/17/2017						0.335 (U)	
5/15/2017						0.261 (U)	
6/14/2017		0.723 (U)	0.801 (U)				
6/15/2017	0.41 (U)			1.09	0.77 (U)	0.188 (U)	3.6
9/27/2017		1.5	1.44				
9/28/2017	0.496 (U)			1.02 (U)	1.07 (U)	0.627 (U)	3.3
2/15/2018	0.672 (U)	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)
6/27/2018	0.692 (U)	1.3 (U)	1.06 (U)	0.739 (U)			
6/28/2018					0.392 (U)	0.336 (U)	1.75 (UX)
12/18/2018		1.64 (UX)	1.22				
12/19/2018	0.325 (U)			0.465 (U)	0.693 (U)	0.454 (U)	
12/20/2018							2.8 (J+X)
8/27/2019		1.38					
8/28/2019	0.24 (U)		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)	
8/29/2019							3.68
10/16/2019		1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66
12/18/2019	1.16 (U)				1.91		
3/3/2020	0.756 (U)						
3/5/2020		0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21
8/19/2020	0.985 (U)	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17
9/16/2020	0.478 (U)	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)	
9/17/2020							2.92
3/3/2021		0.708 (U)	1.12		0.307 (U)	1.12	
3/4/2021	0.38 (U)			0.461 (U)			1.99
9/22/2021	0.734 (U)	0.382 (U)	0.91 (U)		0.808 (U)		
9/23/2021				0.394 (U)		0.078 (U)	1.4
2/1/2022	0.503 (U)	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64
2/2/2022						0.654 (U)	
Mean	0.5736	0.9111	0.9043	0.7343	0.9662	0.5831	2.819
Std. Dev.	0.3376	0.4303	0.2623	0.4129	0.4441	0.2884	1.512
Upper Lim.	0.7932	1.191	1.075	1.003	1.255	0.7708	3.597
Lower Lim.	0.3539	0.6311	0.7337	0.4657	0.6773	0.3955	1.871